



STATE OF ILLINOIS

---

DEPARTMENT OF REGISTRATION AND EDUCATION

# PETROLEUM INDUSTRY IN ILLINOIS, 1964

## Part I. Oil and Gas Developments

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Jacob Van Den Berg

## Part II. Waterflood Operations

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LESTER L. WHITING, JACOB VAN DEN BERG,  
T. F. LAWRY AND RICHARD F. MAST

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# PETROLEUM INDUSTRY IN ILLINOIS, 1964

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## ABSTRACT

In 1964, Illinois produced 70,168,000 barrels of crude oil, down 6.2 percent from 1963. Approximately 47,977,000 barrels, or 68.4 percent, of this production was from secondary recovery waterflood projects. The price of crude oil at the well was based on a gravity scale. Crude oil with an API gravity of 40 degrees or higher sold for \$3.00 a barrel, 39-degree crude oil for \$2.98, 38-degree for \$2.96, and the price was reduced by \$0.03 a barrel for each degree below 38. Total estimated value of oil produced in 1964, including natural gasoline and liquefied petroleum gases extracted from Illinois natural gas, was \$205,942,240.

Of the 3,029 drilling operations reported, 1,681 were oil and gas tests. These tests included 747 producing wells; 72 were former dry holes reworked; 32 were former producers completed in new pay zones. Of 1,577 new tests for oil and gas, 428, or 27 percent, were wildcat wells. There were 349 new service wells drilled, and 732 wells were converted to service wells. Seven oil and gas structure tests were drilled. Wells drilled in connection with the underground storage of natural gas totalled 260.

Six new pools (5 oil and 1 gas), 27 extensions to pools, and 10 new pays in pools were discovered in 1964.


Crude oil reserves in Illinois were estimated to have declined from 421 million barrels at the end of 1963 to 404.7 million barrels at the end of 1964.

There are 21 underground natural gas storage projects with 24 separate reservoirs, either in operation or under development in Illinois for gas from other states. Estimated ultimate capacity of the projects is in excess of 700 billion cubic feet. There are 9 underground mined caverns for storage of liquefied petroleum gases with a total capacity of 2,397,000 barrels.

Controlled waterflood projects reported active at the end of 1964 totalled 849. The 100 new waterflood projects started or reported for the first time were offset partially by 34 abandonments of projects active previously.

Of the 49,522,000 barrels of oil produced from secondary recovery, planned waterflood projects totalled 47,977,000 barrels, 10 pressure maintenance projects 885,600 barrels, and dump floods an estimated 660,000 barrels. At the end of 1964, cumulative oil produced by water injection, including an estimate of oil produced through dump floods, was 520,886,000 barrels.

With the addition of acreage from new projects and/or expansion of earlier waterflood operations, 240,163 acres (including 5,532 acres in pressure maintenance) were under water injection; 18,918 productive acres were subjected to water injection for the first time during 1964. Of the 240,163 acres under water injection, 13,613 acres were abandoned.



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## PART I. OIL AND GAS DEVELOPMENTS

Lester L. Whiting and Jacob Van Den Berg

### INTRODUCTION

The oil and gas industry in Illinois contributed substantially to the economy of the state in 1964. Estimated value of the total production during the year is \$205,942,240.

As in the annual report of 1963, much of the information of a repetitive nature that appeared in annual reports prior to 1963 has been deleted from this report. The separate map of primary and secondary recovery producing areas that appeared last in the 1962 report (Illinois Petroleum 77, plate 1) has been omitted. A modified map is included on the last 10 pages of this report.

Part I discusses and gives statistics on crude oil production, pool development, exploratory drilling, crude oil reserves, productive acreage, gas production, and underground storage of natural gas and liquefied petroleum gas in 1964.

Grateful acknowledgment is given the many oil companies and individuals who contributed basic data for this report.

### OIL PRODUCTION AND VALUE

In 1964 Illinois produced 70,168,000 barrels of crude oil, down 4,628,000 barrels or 6.2 percent, from the 74,796,000 barrels produced in 1963. Based on figures published by the Oil and Gas Journal, Illinois maintained eighth place among the crude oil producing states. It has held this place for a number of years, along with first place among the states east of the Mississippi River. Illinois produces about 2.5 percent of the nation's crude oil.

Cumulative production of crude oil in Illinois to date is 2,531,628,000 barrels. Peak annual production was in 1940 when 147,647,000 barrels were produced. This was the result of the highly successful drilling that followed the discovery in 1937 of oil in the deep part of the Illinois Basin. Production then declined to 59 million barrels in 1963. As a result of hydraulic fracture

treatment that began in the early 1950's and secondary recovery by waterflooding that had started in 1943, annual production climbed to over 80 million barrels in 1955 and remained near the 80 million barrel mark through 1962.

Average daily production of crude oil in 1964 was 191,716 barrels. Following is the daily average crude oil production by months during 1964:

Month	Barrels	Month	Barrels
January	201,653	July	194,588
February	197,240	August	187,532
March	194,748	September	191,745
April	197,431	October	185,609
May	188,754	November	183,231
June	195,317	December	183,152

Table 1A lists by counties the number of holes drilled, footage drilled, and production for 1964. In addition to holes drilled to test for oil and gas, it includes structure tests, service wells, and old holes reworked or converted.

Table 1B lists by counties the number of holes drilled and footage drilled in connection with underground storage of natural gas.

Fayette, Marion, White, Lawrence, and Wayne Counties were the five leading oil producing counties in the state in 1964. With a combined production of 42,010,000 barrels, they accounted for 59.9 percent of the state's total as follows:

County	1964 production (M bbls)	Percentage of state total
Fayette	12,961	18.5
Marion	8,916	12.7
White	7,324	10.4
Lawrence	7,127	10.2
Wayne	5,682	8.1
	<u>42,010</u>	<u>59.9</u>

Eight pools produced over one million barrels of oil each in 1964. As shown in the list below, their combined production of 47,288,000

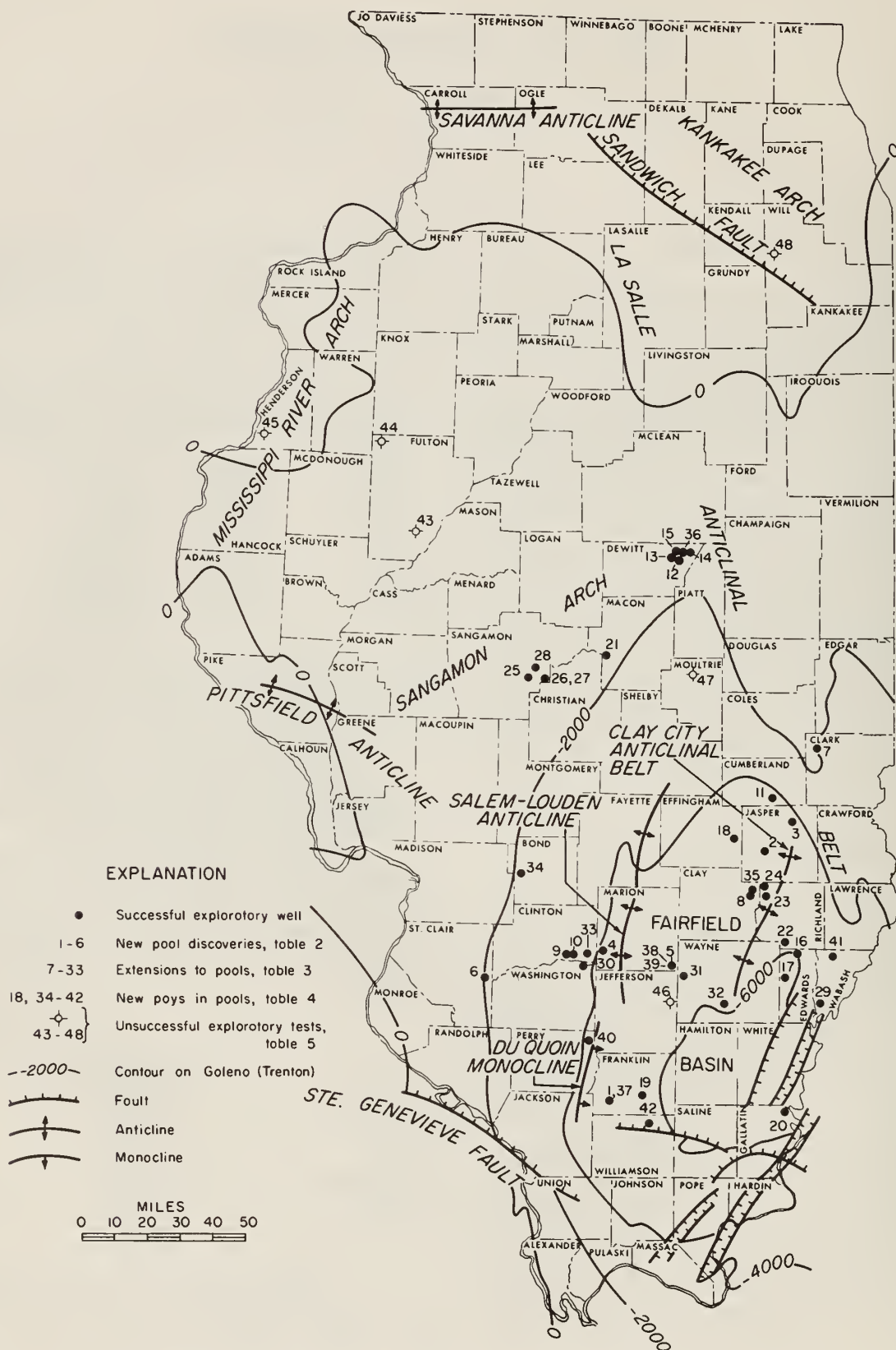


Figure 1 - Major tectonic features of Illinois and their relations to significant holes drilled during 1964. Numbered holes shown are listed in tables 2, 3, 4, and 5.



barrels accounted for 67.4 percent of the state's production for the year. These pools were in the one-million-barrel class in 1963 also. Roland Consolidated pool, which produced 1,048,000 barrels in 1963, declined to 947,000 barrels in 1964.

Pool	1964 production (M bbls)	Percentage of state total
(C=Consolidated)		
Louden	12,237	17.5
Southeastern Illinois		
Oil Field	11,744	16.8
Salem C.	8,996	12.8
Clay City C.	5,137	7.3
New Harmony C.	4,122	5.9
Dale C.	1,987	2.8
Sailor Springs C.	1,639	2.3
Johnsonville C.	1,426	2.0
Total	47,288	67.4

The price of crude oil at the wells in Illinois in 1964 was based on a gravity scale. Crude oil with an API gravity of 40 degrees or higher sold for \$3.00 a barrel; 39-degree crude sold for \$2.98, 38-degree for \$2.96, and for each degree below 38, the price was reduced by \$0.03 a barrel.

The total value of crude oil produced in Illinois in 1964 is estimated at \$205,592,240. This added to the value of natural gasoline and liquefied petroleum gas extracted from Illinois solution gas, estimated at \$350,000, makes the total value of Illinois oil produced in 1964 \$205,942,240.

### 1964 DRILLING

Well completions in connection with oil and gas production in 1964 totalled 2,769 (table 1), down 25 completions from 1963. These included oil and gas tests, structure tests, service wells, and service well conversions. In addition, there were 260 well completions in connection with underground storage of natural gas (table 1A), making a total of 3,029 drilling operations reported during the year.

There were 1,577 new tests for oil and gas, down 301 or 16 percent from 1963. They resulted in 728 oil wells, 19 gas wells, and 830 dry holes. In addition, 72 former dry holes were reworked and completed as producers (70 oil and 2 gas), and 32 former producing wells were reworked and recompleted as oil wells in new pay zones.

A total of 349 new service wells (water input, salt water disposal, etc.) were drilled in 1964. In addition, 732 old holes, 665 of which had been oil wells, were converted to service wells.

Seven structure tests in connection with oil and gas production were completed.

Total footage drilled in 1964 was 3,932,415 feet, including 3,643,346 feet for oil and gas production tests, service wells, and structure tests; and 289,069 feet for underground storage of natural gas.

New production tests for oil and gas were drilled in 64 of the 102 counties of the state. Five counties, with over 75 such tests each, accounted for 34 percent of the state total. They were Lawrence (156), Crawford (107), Clay (100), Clinton (92), and Franklin (88). A total of 70 wells were drilled in counties that to date have no oil production; McLean County alone accounted for 40 of these tests, a result of the discovery in 1962 of Wapella East pool in adjoining DeWitt County.

Of the 1,577 new oil and gas tests drilled in 1964, 428 or 27 percent were wildcats (a half mile or more from production). Twenty-six of the wildcats were completed as producers, a success ratio of 6 percent. Of the 185 wildcats drilled from  $\frac{1}{2}$  to  $1\frac{1}{2}$  miles from production, 22 or 11.9 percent were successful. Of the 243 wildcats drilled over  $1\frac{1}{2}$  miles from production, 4 or 1.6 percent were successful. Of 64 counties that had drilling activity in 1964, all but one had wildcat drilling, and 25 had only wildcat drilling.

### Discoveries

The 6 new pools (5 oil and 1 gas), 27 extensions to pools, and 10 new pays in pools that were discovered in 1964 are listed in tables 2, 3, and 4, respectively, and shown on figure 1.

None of the new pools appears to be significant. Central City pool in Marion County (map no. 4, fig. 1 and table 2) has 7 small wells in Pennsylvanian sand with initial production ranging from 2 to 20 barrels of oil a day. The other new oil fields have from 1 to 3 wells each with production from Mississippian rocks and initial potentials ranging from 5 to 28 barrels a day, except for Christopher South (map no. 1) in Franklin County, which has 2 Aux Vases wells that initialled at 120 and 50 barrels of oil a day, respectively. The new gas pool, St. Libory (map no. 6) in St. Clair County, has 3 shut-in Silurian wells; initial potentials range from 250,000 to 500,000 cubic feet of gas per day.

Several good extensions to Silurian production in New City (map no. 25, fig. 1 and table 3) and Edinburg West (map no. 26, 27) pools in Sangamon County, near the north edge of production in the Illinois Basin, were completed in 1964.

The most significant new pay discovered in an old pool during 1964 was the Trenton in Tamaroa (map no. 40, fig. 1 and table 3), a shallow Cypress pool in Perry County. There were 6 Trenton wells in the pool at the end of the year, with initial potentials ranging from 24 to 84 barrels a day. Tamaroa pool is at the southwestern edge of production in Illinois. The nearest previous Trenton production is 7 miles to the northwest.

### Exploration

Much of the exploratory drilling in 1964 was along the northern and western edges of the Illinois Basin. About 65 tests were drilled near the 1962 Silurian reef discovery at Wapella East in an unsuccessful effort to find similar production. Wapella East pool in northern DeWitt County lies 25 miles north of the major productive region and the only exploratory successes in this area in 1964 were minor extensions of the shallow Mississippian pay and a new Devonian pay at Parnell (map nos. 12-15, fig. 1 and table 3 and map no. 36, fig. 1 and table 4), about 8 miles east of Wapella East.

Table 5 lists 6 selected unsuccessful exploratory tests drilled in 1964. The only Precambrian test in 1964 (map no. 48, fig. 1 and table 5) was in Will County in northeastern Illinois; it topped granite at 4,222 feet. There were no oil shows, and the well was plugged. The deepest test (map no. 47) deepened an old Ordovician Knox dry hole in Moultrie County to the Cambrian Mt. Simon Sandstone, which was topped at 6,306 feet. The test, located near the middle of an unproductive area 25 miles across, formerly had a slight show in the Devonian, but no shows were found in the deepening.

There were 37 crew-months of core drilling in Illinois in 1964, 28 for gas storage reservoirs in northern Illinois and 9 for oil and gas exploration. The oil and gas exploration tests were in 7 counties scattered along the eastern, northern, and western edges of the Illinois Basin. Seismograph activity involved only 4 crew-months.

### Exploration Outlook

Fewer wells probably will be drilled in Illinois in 1965 than in 1964, but exploratory drilling probably will hold its own. Within the main producing area of the state, the discovery of several small new pools can be expected. In the shelf area north and west of the main production, exploration will continue for shallow Silurian reef-rock

and other types of Devonian-Silurian and Trenton production.

The part of the Illinois Basin within the minus 1,000-foot contour on the Middle Ordovician (Trenton), covers an area of about 41,000 square miles—8,700 in Indiana, 10,100 in Kentucky, and 22,200 in Illinois. The 37,600 cubic miles of Middle Ordovician and younger rocks within this area has provided 99 percent of the oil produced from the entire basin. About 38,400 cubic miles of Lower Ordovician and Cambrian rocks underlie the same area. Less than 8 inches of exploratory hole per cubic mile have been drilled in these older, near-shore, unmetamorphosed, marine sediments. Interest in their exploration at depths of 6,000 to 14,000 feet is growing, spurred by the Cambrian production in Ohio and Ontario and by approaching abandonment of large lease blocks now held by shallow production.

### POOLS REVIVED AND ABANDONED IN 1964

Five pools that had been abandoned were revived by new drilling in 1964. They were Bone Gap West, Edwards County; Elliottstown North, Effingham County; Melrose, Clark County; Parkersburg West, Richland and Edwards Counties; and Sailor Springs Central, Clay County.

Twelve pools that had a combined total of 31 wells and a cumulative production of 197,478 barrels of oil were abandoned in 1964. They were Bourbon South, Douglas County; Buckhorn, Brown County; Carlinville South, Macoupin County; Hoyleton West, Washington County; Kell West, Marion County; Orchardville North, Wayne County; Passport West, Clay County; Roby North, Sangamon County; Shattuc North, Clinton County; Sumpter West, White County; Toliver South, Clay County; and Waggoner, Montgomery County.

### GEOLOGIC COLUMN

Figure 2 is a generalized geologic column of southern Illinois. It does not show the Pleistocene deposits that cover much of the Illinois bedrock, the Tertiary and Cretaceous rocks that occur in a belt across the southern end of the state, or the approximately 4,000 feet of Ordovician and Cambrian rocks between the base of the St. Peter Sandstone and the top of the Precambrian basement. Pay zones are indicated on the geologic column by a dot.





## CRUDE OIL RESERVES

For the period 1945 through 1964, figure 3 compares total estimated reserves recoverable by methods in operation during the year with estimated reserves added by new drilling and with actual production of oil. Estimated reserves added by new drilling exceeded annual production (69.8 million barrels versus 66.9 million barrels) during only one year, 1954. The yearly additions to the total reserves are primarily due to upward revisions caused by the inauguration of secondary recovery and other methods of operation.

Since 1956, Illinois oil reserves have been declining at an average rate of about 37 million barrels a year.

	Millions of barrels
Estimated reserves Jan. 1, 1964	421.0
Withdrawal by 1964 production	70.2
Added by new drilling	350.8
Added by upward revision	10.6
Estimated reserves Jan. 1, 1965	361.4
	43.3
	404.7

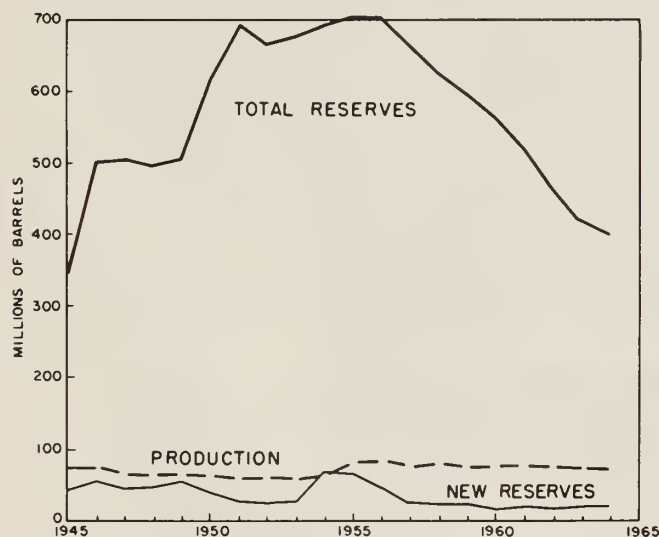


Figure 3 - Estimated oil reserves versus actual production.

## PRODUCTIVE ACREAGE

The completion of 798 oil wells in 1964 added an estimated 7,320 acres to the proved productive area in Illinois. Twenty-one gas well completions increased the productive area by 1,190 acres. The total increase in 1964 of 8,510 acres for both oil and gas makes the total proved

productive area in the state 629,055 acres for oil and 33,795 acres for gas.

The spacing pattern in Illinois of wells producing from less than 4,000 feet deep is 10 acres per well for production from sandstone and 20 acres for production from limestone. The spacing pattern is 40 acres for each well producing from between 4,000 and 6,000 feet deep and 160 acres for each well producing from below 6,000 feet. The deepest production in Illinois is from 5,373 feet in Dutch Creek Sandstone in Golden-gate Consolidated pool, Wayne County.

## GAS AND GAS PRODUCTS

An estimated 21 billion cubic feet of gas was produced from Illinois wells during 1964, either as solution gas or in separate gas reservoirs.

Approximately 480 million cubic feet of Illinois gas was marketed in Illinois during the year. About 300 million cubic feet of this was dry gas obtained from gas wells, and the remainder was gas collected from oil wells. Sixty million cubic feet was distributed to Harrisburg and Eldorado, 21 million cubic feet in Omaha and Ridgeway; the remainder was distributed to interstate pipelines.

From Illinois oil wells, 848 million cubic feet of solution gas was processed during 1964 by the two principal operating companies, with the resultant production of 5,739,000 gallons of natural gasoline and allied products. It is estimated that, in addition to the 848 million cubic feet of metered solution gas processed, about 8 billion cubic feet was flared during the year, and the remaining amount was used to maintain lease operations.

Gas produced in Illinois and marketed in 1964, not including storage areas, was as follows:

Field, County	Market	Amount used (cu. ft.)
Eldorado East, Saline	Pipeline	10,916,000
Eldorado Consolidated,	Pipeline	389,579,000
Raleigh South, Saline		
Omaha, Gallatin	Omaha and Ridge- way	20,801,000
Raleigh, Saline	Eldorado and Harris- burg	59,684,000
	Total	480,980,000

UNDERGROUND STORAGE OF  
LIQUEFIED PETROLEUM GAS

Table 6 gives data on 9 underground storage facilities for liquefied petroleum gases in Illinois.

Storage is in caverns mined from shale or limestone. Propane, butane, and propylene are the gases being stored. The first storage cavern for liquefied petroleum gas in Illinois went into operation in 1953.

In 1964, a new storage cavern of 800,000 barrels capacity was completed in Tuscola for U. S. Industrial Chemicals Company bringing the total capacity in Illinois to 2,397,000 barrels.

## UNDERGROUND STORAGE OF NATURAL GAS

At the end of 1964, there were 21 underground natural gas storage projects either in operation or under development in Illinois. One of these projects has 3 storage reservoirs and another has 2 reservoirs, making the total number of reservoirs in the state 24. Rocks in which the gas is being stored range in age from Pennsylvanian to Cambrian and in depth from 350 to nearly 4,000 feet.

Available data on the storage projects are given in table 7. Estimated ultimate capacity of the projects is over 700 billion cubic feet. Part of this capacity is cushion gas that remains in the reservoir and is not available for withdrawal and delivery to consumers. The Mahomet St. Peter and Galesville reservoirs were abandoned after testing indicated they were unsuitable for storage.

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TABLE 1A - SUMMARY OF OIL AND GAS DRILLING ACTIVITY AND OIL PRODUCTION IN 1964

County	Permits to drill	Total completions	Production Tests					Service Wells				Structure tests	Total footage drilled	Total oil production (M bbls)
			New Holes		OWWO		Footage drilled	New Service wells	Conversions		Footage drilled			
					D&A to prod. <sup>a</sup>	Prod. to prod. in new pay zones			Were prod.	Other <sup>b</sup>				
Adams	13	14	2	12	-	-	9,912	-	-	-	-	-	9,912	10
Bond	7	8	1	7	-	-	10,930	-	-	-	-	-	10,930	149
Brown	25	28	1	27	-	-	18,885	-	-	-	-	-	18,885	6
Cass	1	1	-	1	-	-	1,050	-	-	-	-	-	1,050	-
Champaign	2	1	-	1	-	-	521	-	-	-	-	-	521	-
Christian	51	44	25	17	-	-	78,751	-	1	1	-	-	78,751	934
Clark	65	70	29	27	-	-	45,236	14	-	-	6,955	-	52,191	865 <sup>c</sup>
Clay	155	174	50	50	11	3	289,399	1	53	6	845	-	290,244	2,702
Clinton	109	116	29	63	2	-	132,605	2	16	1	2,590	3	137,972	1,536
Coles	65	62	31	12	4	1	84,457	8	4	2	9,403	-	93,860	999
Crawford	191	248	75(1)	31	-(1)	-	112,425	98	35	6	101,365	1	214,785	3,561
Cumberland	26	22	8	9	4	-	42,489	1	-	-	611	-	43,100	(c)
DeWitt	34	30	12	16	1	-	32,594	1	-	-	5,051	-	37,645	245
Douglas	5	17	4(2)	5	-	-	13,027	-	4	2	-	-	13,027	148
Edgar	10	11	3	8	-	-	8,912	-	-	-	-	-	8,912	60
Edwards	49	48	13	18	-	-	93,571	3	12	2	4,764	-	98,335	1,230
Effingham	47	32	5	21	-	-	66,084	5	-	1	11,963	-	78,047	433
Fayette	98	139	30	12	3	11	96,180	50	29	4	81,218	-	177,398	12,961
Ford	1	1	-	1	-	-	700	-	-	-	-	-	700	-
Franklin	98	100	46	42	1	-	241,906	5	4	2	13,455	-	255,361	1,646
Fulton	3	4	-	4	-	-	3,460	-	-	-	-	-	3,460	-
Gallatin	39	41	19	6	1	1	61,455	1	12	1	2,135	-	63,590	1,263
Greene	3	2	-	2	-	-	890	-	-	-	-	-	890	-
Hamilton	125	104	12	11	6	-	72,615	19	51	5	56,294	-	128,909	3,148 <sup>d</sup>
Hancock	6	7	-	5	-	-	2,274	-	-	-	-	2	3,519	43
Henderson	1	1	-	1	-	-	802	-	-	-	-	-	802	-
Jackson	6	4	-	4	-	-	10,230	-	-	-	-	-	10,230	-
Jasper	45	42	11	17	2	-	78,364	-	12	-	-	-	78,364	768
Jefferson	79	60	15	20	1	1	101,521	3	16	4	4,760	-	106,281	1,856
Jersey	2	1	-	1	-	-	1,425	-	-	-	-	-	1,425	-
Kankakee	1	1	-	1	-	-	565	-	-	-	-	-	565	-
Lawrence	254	262	123(1)	32	5	-	270,296	88	13	-	145,920	-	416,216	7,127
Livingston	7	1	-	1	-	-	1,086	-	-	-	-	-	1,086	-
Logan	1	2	-	2	-	-	3,247	-	-	-	-	-	3,247	-
McDonough	4	5	-	4	-	-	2,168	-	-	-	-	1	2,770	(d)
McLean	38	40	-	40	-	-	40,079	-	-	-	-	-	40,079	-
Macon	11	12	3	8	1	-	22,918	-	-	-	-	-	22,918	36
Macoupin	7	5	-	2	-	-	2,151	3	-	-	1,788	-	3,939	8
Madison	20	22	1	16	-	-	22,879	1	4	-	545	-	23,424	320
Marion	163	163	19	24	3	6	84,348	7	95	9	9,117	-	93,465	8,916
Mason	-	2	-	2	-	-	2,220	-	-	-	-	-	2,220	-
Montgomery	8	6	-	6	-	-	8,254	-	-	-	-	-	8,254	3
Morgan	3	2	-	2	-	-	1,702	-	-	-	-	-	1,702	-
Moultrie	3	1	-	1	-	-	2,834	-	-	-	-	-	2,834	5
Perry	12	10	6	4	-	-	31,038	-	-	-	-	-	31,038	56
Piatt	7	5	-	5	-	-	6,541	-	-	-	-	-	6,541	-
Pike	2	3	-	3	-	-	1,721	-	-	-	-	-	1,721	-
Pope	-	4	-	4	-	-	1,454	-	-	-	-	-	1,454	-
Randolph	3	20	1(9)	8	-(1)	-	19,274	1	-	-	924	-	20,198	145
Richland	95	106	27	10	1	1	113,058	3	63	1	1,819	-	114,877	1,985
St. Clair	9	15	-(5)	10	-	-	20,385	-	-	-	-	-	20,385	-
Saline	20	38	4	7	-	1	29,300	5	20	1	8,618	-	37,918	609
Sangamon	79	72	13	56	2	-	116,845	1	-	-	1,730	-	118,575	157
Schuyler	2	1	-	1	-	-	700	-	-	-	-	-	700	-
Scott	1	1	-	1	-	-	443	-	-	-	-	-	443	-
Shelby	7	7	-	5	-	-	11,036	-	1	1	-	-	11,036	100
Tazewell	1	2	-	2	-	-	1,846	-	-	-	-	-	1,846	-
Union	1	1	-	1	-	-	2,430	-	-	-	-	-	2,430	-
Wabash	198	144	47	24	4	-	160,210	8	56	5	15,123	-	175,333	2,474
Washington	48	60	7	51	-	-	99,060	-	2	-	-	-	99,060	615
Wayne	184	162	23	13	11	4	111,828	10	91	10	26,224	-	138,052	5,682
White	144	156	32	29	7	3	176,887	11	71	3	27,778	-	204,665	7,324
Will	-	1	-	1	-	-	4,300	-	-	-	-	-	4,300	-
Williamson	6	5	1(1)	3	-	-	10,959	-	-	-	-	-	10,959	43
	2,700	2,769	728(19)	830	70(2)	32	3,096,732	349	665	67	540,995	7	3,643,346	70,168

<sup>a</sup> Gas in parentheses, not included in totals.<sup>b</sup> Former D&A and other types of holes converted in connection with waterflood projects.<sup>c</sup> Production is combined for Clark and Cumberland Counties.<sup>d</sup> Production is combined for Hancock and McDonough Counties.



TABLE 1B - SUMMARY OF UNDERGROUND NATURAL GAS STORAGE DRILLING ACTIVITY IN 1964

County	Permits issued	Total completions	Structure tests	Injection and withdrawal wells		Service wells		Footage
				New wells	Conversions	New wells	Conversions	
Bureau	4	4	4	-	-	-	-	3,045
Champaign	9	10	2	1	-	7	-	29,099
Coles	18	9	4	4	1	-	-	4,324
Crawford	1	17	17	-	-	-	-	14,786
DeWitt	-	4	1	-	-	3	-	8,591
Douglas	7	5	1	1	-	3	-	4,854
Edgar	12	10	1	-	-	8	1	17,690
Ford	6	7	7	-	-	-	-	3,936
Grundy	16	16	16	-	-	-	-	7,117
Henry	11	11	11	-	-	-	-	5,791
Kankakee	26	15	2	8	-	5	-	23,720
LaSalle	27	30	16	10	-	4	-	25,911
Lee	6	6	6	-	-	-	-	6,378
Livingston	136	56	52	3	-	1	-	88,889
McLean	2	5	5	-	-	-	-	3,080
Madison	-	1	1	-	-	-	-	2,981
Marion	21	20	-	8	12	-	-	8,148
Ogle	47	31	18	7	-	6	-	28,905
Piatt	-	2	2	-	-	-	-	1,824
Randolph	1	1	-	-	1	-	-	-
TOTALS	350	260	166	42	14	37	1	289,069

TABLE 2 - SIX NEW POOL DISCOVERIES IN 1964

Map no. (Fig. 1)	Location	County	Operator, well no., and farm	Pool	Initial production	Pay zone	Prod. depth (feet)	Total depth (feet)	Com- ple- tion date
1	1-7S-1E	Franklin	A. B. Vaughn #1 Bacon	Christopher South	120 BO	Aux Vases	2,628	2,770	2-7
2	32-7N-9E	Jasper	Don Durr #1 Tanner	Lis	10 BO/60 BW	Spar Mtn.	3,027	3,050	3-6
3	28-8N-10E	Jasper	Peake Petr. Co. #1 L. P. Winter	Hidalgo South	5 BO/23 BW	McClosky	2,632	2,715	6-16
4	8-1N-1E	Marion	E. E. Flippin #1 E. M. Dearborn*	Central City	20 BO	Penn.	842	904	7-24
5	27-1N-4E	Marion	Natl. Assoc. Petr. Co. #1 M. A. M.	Hickory Hill	20 BO/100 BW	Cypress	2,488	2,717	12-24
6	25-1S-6W	St. Clair	Luttrell & Depoister #1 L. Lickenbrock	St. Libory	500 Mcf	Silurian	1,947	1,947	1-10

\* OWWO; was D&amp;A; old TD 2,715.

TABLE 3 - DISCOVERY WELLS OF TWENTY-SEVEN EXTENSIONS TO POOLS IN 1964  
(C, Consolidated; E, East; N, North; S, South; W, West)

Map no. (Fig. 1)	Location	County	Operator, well no., and farm	Pool	Initial production	Pay zone	Prod. depth (feet)	Total depth (feet)	Com- ple- tion date	Remarks
7	12-11N-14W	Clark	E. Zink #1 Morrill	Westfield E.	10 BO	Penn.	419	419	7-10	
8	3-4N-8E	Clay	A. Zanetis #1 Kuenstler	Passport	200 BO	Aux Vases	2,938	3,115	11-27	OWWO; was D&A; old TD 3,115.
9	8-1N-2W	Clinton	N. A. Baldridge #1 Crocker	Posey	50 BO	Cypress	1,164	1,299	3-28	
10	9-1N-2W	Clinton	Illinois Lease Oprg. Co. #1 Brinkman	Posey	10 BO/14 BW	Cypress	1,153	1,251	8-21	
33	21-1N-1W	Clinton	Jet Oil Co. #1 Coe et al	Wamac W.	35 BO	Cypress	1,281	1,281	8-28	
11	27-9N-9E	Cumberland	L. & M. Oil Co. #1 M. Sedgwick	Hidalgo N.	5 BO/20 BW	Spar Mtn. McClosky	2,662 2,720	2,807	9-18	OWWO; was D&A; old TD 2,807.
12	2-20N-4E	DeWitt	E. H. Kaufman #1 I. Beazly	Parnell	4 BO/80 BW	Sonora	670	1,192	12-18	OWWO; was D&A; old TD 1,192.
13	3-20N-4E	DeWitt	Anderson & Farmer #1 E. G. Fruin Tr.	Parnell	1 BO/50 BW	Sonora	704	704	5-15	
14	31-21N-5E	DeWitt	E. H. Kaufman #1 Sprague Com.	Parnell	1 BO/80 BW	Sonora	680	859	12-18	
15	35-21N-4E	DeWitt	E. H. Kaufman #1 Mary J. Kelley	Parnell	8 BO/50 BW	Sonora	678	1,940	12-18	
16	36-2N-10E	Edwards	M. V. Ring #1 R. F. Johnson	Parkersburg C.	100 BO/150 BW	McClosky	3,226	3,243	8-7	
17	8-1S-10E	Edwards	Collins Bros. #1 Ada B. Bone	Bone Gap W.	21 BO/120 BW	McClosky	3,314	3,378	1-10	
18	20-7N-7E	Effingham	R. H. Evans #2 A. Worman	Elliotstown N.	200 BO	McClosky	2,747	2,747	2-11	Also new pay in pool.
19	31-6S-3E	Franklin	E. E. Rehn #1 Freeman	Benton	50 BO	Aux Vases	2,754	2,754	2-25	
20	21-7S-10E	Callatin	T. A. Mitchell Drlg. #1 Egli	Inman E. C.	30 BO	Aux Vases	2,800	2,934	1-10	
21	31-16N-1E	Macon	Ware Watson #1 Ruth Cottle	Blackland	8 BO/30 BW	Silurian	1,933	1,960	7-17	OWWO; was D&A; old TD 1,960.
22	29-2N-10E	Richland	Mt. Carmel Drlg. #1 C. Bowen	Calhoun S.	14 BO/5 BW	McClosky	3,296	3,406	10-2	
23	19-4N-9E	Richland	F. M. Minor Drlg. #1 Chandler	Passport S.	7 BO	McClosky	3,049	3,094	10-16	
24	31-5N-9E	Richland	R. W. Harper, Jr. #1 Leo Kuhl	Passport N.	3 BO/80 BW	Aux Vases	2,970	3,155	4-3	
25	4-14N-4W	Sangamon	Pat Gentile #1 G. E. Miller Com.	New City	450 BO	Silurian	1,711	1,721	7-10	
26	5-14N-3W	Sangamon	N. V. Duncan Drlg. #1 Boyd	Edinburg W.	207 BO	Silurian	1,771	1,784	11-27	
27	5-14N-3W	Sangamon	Atkins & Hale #1 B. F. Walker Hrs.	Edinburg W.	175 BO	Silurian	1,752	1,785	11-6	
28	22-15N-4W	Sangamon	Erik P. Weber #1 O. E. Fleming	Springfield E.	5 BO/1 BW	Silurian	1,660	1,680	9-15	OWWO; was D&A; old TD 1,680.
29	3-2S-14W	Wabash	Indiana Farm Bureau #1 Schonaman	Browns	100 BO	Ohara	2,973	2,973	9-25	
30	29-1N-1W	Washington	Max Williams #1 Jackson	Wamac W.	20 BO	Cypress	1,291	1,291	12-18	
31	5-1S-5E	Wayne	W. O. Lucas #1 Lona Lowery	Coil N.	?(oil)	Aux Vases	2,879	3,040	10-30	
32	8-2S-7E	Wayne	Slagter Prod. Corp. #1 R. Lyons	Clay City C.	17 BO/70 BW	Ohara	3,286	3,405	5-15	OWWO; was D&A; old TD 3,405.

TABLE 4 - DISCOVERY WELLS OF TEN NEW PAYS IN POOLS IN 1964

Map no. (Fig. 1)	Location	County	Operator, well no., and farm	Pool	Initial production	Pay zone	Prod. depth (feet)	Total depth (feet)	Com- ple- tion date
34	21-5N-4W	Bond	Cahill & Smith #5 Miller-Sugg	Old Ripley	1.5 BO/35 BW	Aux Vases	960	1,082	2-11
35	34-5N-8E	Clay	M. C. Milam #1 Rosa Iffert	Passport	157 BO/10 BW	Aux Vases	2,930	3,037	8-21
36	36-21N-4E	DeWitt	E. H. Kaufman #1 Grady	Parnell	5 BO	Devonian	1,135	1,971	8-5
18	20-7N-7E	Effingham	R. H. Evans #2 A. Worman*	Elliotstown North	200 BO	McClosky	2,747	2,747	2-11
37	1-7S-1E	Franklin	A. B. Vaughn #1 Hoey	Christopher South	11 BO/55 BW	Ohara	2,700	2,778	9-1
38	27-1N-4E	Marion	Natl. Assoc. Petr. Co. #1 Halfacre Est.	Hickory Hill	28 BO/90 BW	Benoist	2,652	2,713	11-4
39	27-1N-4E	Marion	Natl. Assoc. Petr. Co. #1 Lowry "A" - Shelton Com.	Hickory Hill	27 BO	Spar Mtn.	2,839	2,985	12-21
40	23-4S-1W	Perry	Texaco Inc. #1 J. Majewski	Tamaroa	48 BO/31 BW	Trenton	4,275	4,275	6-5
41	34-2N-13W	Wabash	Don H. Baldwin #1 A. E. Seibert et al	Lancaster	25 BO/25 BW	Spar Mtn.	2,654	2,688	5-8
42	23-8S-3E	Williamson	E. E. Morris #1 Madison Coal Corp. "O"	Pittsburg North	175 BO	Aux Vases	2,600	2,644	11-6

\* Also extension to pool.

TABLE 5 - SELECTED LIST OF SIX UNSUCCESSFUL EXPLORATORY TESTS IN 1964

Map no. (Fig. 1)	Location	County	Operator, well no., and farm	Pool or wildcat	Deepest formation tested	Depth to top (feet)	Total depth (feet)	Com- ple- tion date
43	9-4N-3E	Fulton	A. & B. Oil Co. #1 Dean Clary	WF*	Trenton	1,020	1,030	6-12
44	11-8N-1E	Fulton	Harry A. Palmer #1 Dempsey	WF	Trenton	806	950	1-24
45	2-8N-6W	Henderson	Lee Werner #1 Evans	WF	St. Peter	798	802	10-16
46	13-2S-4E	Jefferson	Eason Oil Co. † #3 J. T. Henry	Markham City North	Warsaw	3,826	4,000	10-9
47	22-15N-5E	Moultrie	H. C. Sanders #1 Harrison**	WF	Mt. Simon	6,306	6,526	6-5
48	20-35N-9E	Will	Chas. L. Reed #1 McCoy	WF	Precambrian	4,244	4,300	8-4

\* Wildcat far, well drilled 1½ or more miles from nearest producer.

† McClosky deepest pay zone in pool at 3,100.

\*\* Old well drilled deeper; old TD 4,337.

TABLE 6 - UNDERGROUND STORAGE FACILITIES FOR LIQUEFIED PETROLEUM GASES IN ILLINOIS, JANUARY 1, 1965

Company	Location	Type of Storage	Capacity* (bbls)
General Facilities, Inc.	Wood River, Madison County	Mined limestone	97,000
Phillips Petroleum Co.	Kankakee, Kankakee County	Mined shale	260,000
Shell Oil Co.	Wood River, Madison County	Mined limestone	500,000
	Wood River, Madison County	Mined limestone	232,000
Tuloma Gas Products Co.	Wood River, Madison County	Mined limestone	240,000
U. S. Industrial Chemicals Co.	Tuscola, Douglas County	Mined shale	170,000
	Tuscola, Douglas County	Mined shale	800,000
Warren Petroleum Corp.	Eola (Aurora), Kane County	Mined shale	46,000
	Crossville, White County	Mined shale	52,000
TOTAL			2,397,000

\* From Oil and Gas Journal.

TABLE 7 - UNDERGROUND NATURAL GAS STORAGE PROJECTS IN ILLINOIS

Company & Project	County & Location	Operational Dates (initial)		Number of Wells		Geologic Data				Reservoir Data					Capacities in Millions of Cubic Feet							
		Devel- opment	Stor- age	With- drawal	Oper- ating	Obser- vation	Other	Strati- graphic unit	Lithol- ogy	Struc- ture	Orig- inal fluid	Area in Acres		Thick- ness (feet)	Av. por- osity %	Av. perme- ability Millidarcies	Ulti- mate	Work- ing	Cush- ion	Peak daily deliv- er- ability	Annual through- put	
												Stor- age	Clo- sure									Depth
CENTRAL ILLINOIS																						
LIGHT CO. Classford	Peoria. 7N; 6E	1960	1964	1964	2	17	-	Silurian	dolo.	dome	water	3,500	800	30-120	13.0	426	5,000	-	-	-	11.2	90
	Coles, Clark. 12N; 10E, 11E, 14W	1960	1963	1963	22	9	-	Penn. Miss.	sand lime	anti- cline	gas	1,600	400	0-35	15.0-18.0	50-200	1,600	596	806	13.0	115	
ILLINOIS POWER CO.																						
Centralia East	Marion. 1N; 1E	1960	1964	-	15	6	0	Penn.	sand	strat. trap	gas	463	-	850	49	200	615	124	491	-	-	-
Freeburg	St. Clair. 1 & 2S; 7W	1958	1959	1959	68	6	0	Cypress	sand	strat. trap	gas	4,222	-	350	50	216	6,466	1,872	4,594	40.0	628	
Cillespie-Benld	Macoupin. 8N; 6W	1958	1958	1959	7	0	0	Penn.	sand	strat. trap	gas	95	-	510	43	326	147	32	115	2.0	6	
Hookdale	Bond. 4N; 2W	1962	1963	1963	10	0	0	Benoist	sand	strat. trap	gas	391	-	1,120	24	458	798	512	286	23.4	610	
Tilden	St. Clair & Washington. 3S; 5, 6W	1957	1961	1961	44	5	0	Cypress	sand	strat. trap	gas	1,288	-	800	32	183	2,641	869	1,772	17.0	102	
Tuscola	Douglas & Champaign. 16, 17N; 8E	1960	-	-	2	4	1	St. Peter	sand	anti- cline	water	-	-	-	-	-	-	-	-	-	-	-
MIDWESTERN GAS																						
TRANSMISSION CO.	Edgar. 12, 13N; 11W	1961	1964	-	3	6	-	Devonian	lime	reef	water	1,691	1,925	145	17.9	18	6,270	-	-	-	-	-
Elbridge	Edgar. 12, 13N; 11W	1961	-	-	3	5	-	Devonian	lime	reef	water	1,816	1,975	90	12.9	25	3,438	-	-	-	-	-
Nevins	Clark, Ill. & Vigo, 1961	1962	1962	1964	3	6	-	Devonian	lime	reef	water	496	1,860	91	17.9	47	2,292	-	-	-	-	-
State Line	Ind. 12N; 10W																					
MISSISSIPPI RIVER																						
FUEL CORP.	Madison. 3N; 6W	1963	1963	none	2	1	-	St. Peter	sand	dome	water	550	800	2,870	70	16.1	400+	5,000	3,000	2,000	50.0	none
St. Jacob North	Monroe. 1, 2S; 10W	1950	1951	1951	6	6	22	Ordovician	dolo.	dome	water	100	300	1,650	100	Vugular	-	250	150	100	24.0	941
Waterloo																						
NATURAL GAS																						
PIPELINE CO.	Coles & Douglas. 14N; 7, 8E	1958	1959	1963	3	2	8	Tradewater	sand	lens	water	1,120	1,160	90	18.5	168	(under development)	3,300*	1,825	1,475	50.5	1,725
Cooks Mills		1956	1957	1958	18	7	0	Cypress	sand	lens	gas	750	1,600	15	18.0	67	3,300*	1,825	1,475	50.5	1,725	
		1956	1957	1958	1	0	0	Spar Mtn. (Rosiclare)	sand	lens	gas	240	1,760	9	14.5	146	200*	75	125	2.0	70	
Brookville	Ogle. 23N; 7E	1963	1964	-	5	9	-	Mt. Simon	sand	anti- cline	water	400	6,210	1,050	145	18.7	1,000	45,000	22,500	22,500	-	-
Herscher	Kankakee. 30N; 10E	1952	1953	1953	57	54	50	Caleville	sand	anti- cline	water	6,750	15,000	1,750	100	19.0	467	100,000	50,000	50,000	705.0	18,200
		1957	1957	1958	21	15	-	Mt. Simon	sand	anti- cline	water	7,500	15,000	2,450	100	14.8	185	67,000	26,800	40,200	189.0	7,360
NORTHERN ILLINOIS																						
GAS CO.	LaSalle & Livingston. 29, 30N; 2, 3E	1961	1963	-	10	14	-	Mt. Simon	sand	dome	water	-	10,000	2,200	-	12.3	114	120,000	-	-	-	-
Ancona-Garfield																						
Crescent City	Iroquois. 26, 27N; 13W	1959	-	-	6	19	-	St. Peter	sand	dome	water	-	18,000	1,200	150	14.5	138	100,000	-	-	-	-
Troy Grove	LaSalle. 34, 35N; 1E	1957	-	1959	68	27	-	Mt. Simon	sand	dome	water	-	10,000	1,420	2,110	16.8	150	64,000	27,610	22,590	514.0	25,000
PANHANDLE EASTERN																						
PIPELINE CO.	Morgan. 13N; 8W	1952	1954	1961	11	17	7	St. Peter	sand	dome	water	1,500	9,000	1,850	115	18.4	1,220	150,000	6,000	6,000	154.0	4,947
Waverly																						
PEOPLES GAS, LIGHT																						
& COKE CO.	Champaign. 21N; 7E	1960	1961	Abd. in 1961	6	17	-	St. Peter	sand	anti- cline	water	-	-	1,580	-	-	-	-	-	-	-	-
Mahomet	Abd. in 1964	1963	Abd. in 1964	-	-	-	-	Galesville	sand	anti- cline	water	-	-	3,150	-	-	-	-	-	-	-	-
	1964	1964	-	-	-	-	-	Mt. Simon	sand	anti- cline	water	13,370	3,880	(under development)	-	-	-	-	-	-	-	-

\* Current storage; project under over-pressureurization program, ultimate capacity not available.



TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964

## Explanation of Abbreviations and Symbols

Pool: N, North; S, South; E, East; W, West; C, Consolidated; Cen, Central.  
Pools located in two or more counties have county names listed in order of oil discovery.

Age: Pc, Precambrian; Cam, Cambrian; Ord, Ordovician; St. P, St. Peter;  
Trn, Trenton; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen,  
Pennsylvanian; Shak, Shakopee.

Kind of rock in pay zone: D, dolomite; DS, sandy dolomite; L, limestone;  
LS, sandy limestone; OL, oolitic limestone; S, sandstone.

\* Secondary recovery project listed in Part II.

Abd: Pool abandoned.

x Correct figure not determinable.

† Pool listed in Table 9 (gas production).

\* Illinois portion only.

Rev: Pool revived.

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil		Pay zone	Deepest test
					During 1964	To end of 1964	Completed to end of 1964	Com- pleted in 1964	Aban- doned 1964	Pro- ducing end of year	Sul- fur Gr. API (%)			
	Name and age	Depth (ft)												
Ab Lake; Gallatin; 8S; 10E	Pennsylvanian	805	1947	120	4	67	9	0	0	3	x	x	M	Mis 2,953
	Palestine, Mis	1,835	1957	30	x	x	3	0	0		x	x	S 10 M	
	Waltersburg, Mis	2,000	1957	10	x	x	1	0	0		x	x	S 5 MF	
	Renault, Mis	2,735		30	x	x	3	0	0		x	x	S 10 M	
	Aux Vases, Mis	2,770		40	x	x	2	0	0		35	x	L 8 MF	
Ab Lake South; Gallatin; 9S; 10E	Aux Vases, Mis	2,798	1959	40	x	x	4	0	0		35	x	S 9 MF	
	Aux Vases, Mis	2,798		10	0	4	1	0	0	0	x	x	S 6 M	Mis 2,982
				Abd 1963										
Ab Lake West; Gallatin; 8-9S; 9-10E	Pennsylvanian	725	1950	380	22	448	32	0	2	21	x	x	M	Mis 2,964
	Waltersburg, Mis	2,020	1956	30	x	x	3	0	0		x	x	S 10 ML	
	Tar Springs, Mis	2,075	1958	180	x	x	18	0	1		x	x	S 20 ML	
	Cypress, Mis	2,425		20	x	x	2	0	0		x	x	S 10 ML	
	Aux Vases, Mis	2,735		10	x	x	1	0	0		x	x	S 9 ML	
Aden C; Wayne, Hamilton; 2-3S; 7E	Aux Vases, Mis	2,830	1938	170	x	x	17	0	1		x	x	S 6 ML	
	McClosky, Mis	2,830		20	x	x	1	0	0		x	x	L 2 MC	
	2 or more pays						4	0	0					
	Aux Vases, Mis	3,200		2,620	187	9,930	121	2	8	81	35	x	S 10 A	Dev 5,434
	Ohara, Mis	3,290		1,370	x	x	63	3	5		35	x	L 7 A	
Aden East; Wayne; 2S; 7E	Spar Mtn, Mis	3,320	1945	100	x	x	7	0	0		35	x	LS 5 AC	
	McClosky, Mis	3,350		2,420	x	x	5	0	0		35	x	L 4 A	
	Salem, Mis	3,735		160	x	x	78	3	6		35	x	L 4 A	
	Harrodsburg, Mis	4,132		80	x	x	8	0	0		40	x	L 16 AC	
	Dutch Creek, Dev	5,318		1959	120	x	x	2	0	0		x	x	L 16 AC
Aden South; Hamilton; 3S; 7E	McClosky, Mis	3,434	1959	20	x	x	3	0	0		x	x	S 10 A	
	2 or more pays					50	3	2						
	McClosky, Mis	3,434	1961	20	0	0	1	0	0	0	x	x	OL 6 X	Mis 3,552
			Abd 1961											
Akin; Franklin; 6S; 4E	Aux Vases, Mis	3,245	1942	440	13	668	24	0	4	13	x	x	S 8 AL	Dev 5,462
	Ohara, Mis	3,310		100	x	x	6	0	0		x	x	L 7 AC	
	Spar Mtn, Mis	3,330		40	x	x	8	0	1		x	x	LS 8 AC	
	McClosky, Mis	3,395		160	x	x	16	0	3		39	x	L 9 AC	
	2 or more pays			360	x	x	9	0	1					
Aden East; Wayne; 2S; 7E	Cypress, Mis	2,840	1942	640	73	1,894	53	0	2	31	33	0.14	A	Mis 3,515
	Aux Vases, Mis	3,100		180	x	x	11	0	2		38	0.12	S 10 AL	
	Ohara, Mis	3,100		440	x	x	38	0	0		x	x	S 22 AL	
				80	x	x	4	0	0				L 18 AC	

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft.)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964	Pro-ducing end of year			
Akin (cont.)	McClosky, Mis 2 or more pays	3,270		20	x	x	1	0	0		x	x	L 9 AC
Akin West; Franklin; 6S; 4E	Cypress, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis Harrodsburg, Mis 2 or more pays	2,715 3,050 3,080 3,130 3,994	1948	200	13	140	9	0	0	7	x	x	A S 8 AL L 10 AC L 12 AC L 4 AC L 10 X
Albion Cen; Edwards; 2S; 10E	Ohara, Mis McClosky, Mis 2 or more pays	3,350 3,395	1955	180	0.9	135	7	0	0	2	x	x	X L 5 X L 4 X
•Albion C <sup>+</sup> ; Edwards, White; 1-3S; 10-11E, 14W	Mansfield, Pen Bridgeport, Pen Biehl, Pen Degonia, Mis Waltersburg, Mis Tar Springs, Mis Hardinsburg, Mis Cypress, Mis Bethel, Mis Benoist, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	1,650 1,900 2,000 2,125 2,365 2,460 2,635 2,860 2,960 3,000 3,045 3,110 3,130 3,200	1940	5,950	855	24,215	471	4	10	268	35	x	AM S 5 MF S 15 MF S 15 MF S 9 MF S 16 AL S 5 AL S 10 A S 15 A S 14 Af S 13 Af S 18 Af L 5 AC L 10 AC L 12 AC
Albion East; Edwards; 2S; 14W	Cypress, Mis Bethel, Mis Benoist, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,800 2,920 2,925 3,020 3,100 3,125 3,155	1943	860	31	1,309	52	0	0	25	x	x	A S 7 A S 6 AL S 10 AC S 17 AL L 7 A L 7 A L 7 A
Albion West; Edwards; 3S; 10E	McClosky, Mis	3,375	1953	20	0	1	1	0	0		x	x	L 5 X
•Allendale; Wabash, Lawrence; 1-2N; 11-13W	Pleasantview, Pen Bridgeport, Pen Buchanan, Pen Biehl, Pen Jordan, Pen Waltersburg, Mis Tar Springs, Mis Hardinsburg, Mis	660 1,070 1,290 1,450 1,490 1,540 1,600 1,780	1912	9,060	474	19,678	1,031	11	6	394	x	x	AM S 30 AM S 12 AM S 15 AM S 20 AM S 10 AM S 15 AM S 20 AM



Allendale (cont.)

Alma; Marion; 4N; 2E	Cypress, Mis	1,920	x	x	71	3	0	36	x	S	10	AM
	Sample, Mis	1,769	x	x	11	0	0	x	x	S	x	AM
	Bethel, Mis	2,010	x	x	91	1	1	37	x	S	10	AM
	Aux Vases, Mis	2,280	x	x	5	0	0	x	x	S	12	AM
	Ohara, Mis	2,300	x	x	12	1	0	x	x	L	10	AM
	Spar Mtn, Mis	2,300	x	x	4	0	0	x	x	LS	5	AM
	McClosky, Mis	2,300	x	x	22	0	0	37	x	L	8	AM
	2 or more pays		x	x	18	2	1					
		1941	0	82	6	0	0	1				Dev 3,692
	Cypress, Mis	1,805	10	x	1	0	0	x	x	S	7	AL
Amity; Richland; 4N; 14W	Benoist, Mis	1,945	60	x	6	0	0	x	x	S	8	AL
	Spar Mtn, Mis	2,085	40	x	2	0	0	36	0.26	L	10	AC
	McClosky, Mis	2,960	160	2	4	0	0	1	36	x	OL	5 MC
	Spar Mtn, Mis	2,890	20	0	1	0	0	0	x	L	4	X
	Aux Vases, Mis	2,925	10	0	1	0	0	0	x	S	12	X
				Abd 1953								Mis 3,089
				Abd 1954								Mis 3,010
	Benoist, Mis	1,430	180	19	15	0	0	14	x	S	7	X
	Pennsylvanian	415	30	0	3	1	0	x	x	S	14	X
				Abd 1957; rev 1962								Pen 484
Ashley; Washington; 2S; 1W	Unnamed, Pen	420	170	3	17	0	0	15				Trn 2,260
	Mississippian	475	160	x	16	0	0	0	x	S	x	AL
			10	x	1	0	0	0	x	L	17	X
	Devonian	2,433	20	0	1	0	0	0	x	L	4	X
				Abd 1961								Dev 2,437
	Benoist, Mis	1,050	2,980	351	182	5	0	105				Ord 3,070
	Spar Mtn, Mis	1,170	460	x	46	2	0	40	x	S	13	A
	Cedar Valley, Dev	2,300	330	x	17	0	0	38	x	S	4	AL
	2 or more pays		2,930	x	121	3	0	40	x	L	8	A
				x	1	0	0					
Assumption S; Christian; 12N; 1E	Cypress, Mis	780	80	0	16	0	0	0	x	S	18	A
				Abd 1943; rev 1956; abd 1957								Trn 3,582
	Silurian	1,535	60	0.4	3	0	0	1	x	L	x	R
												Trn 2,234
	Aux Vases, Mis	3,325	2,050	95	156	1	15	54	x	S	15	A
	Ohara, Mis	3,370	750	x	72	1	11	x	x	OL	6	AC
	Spar Mtn, Mis	3,400	200	x	8	0	1	x	x	LS	9	AC
	McClosky, Mis	3,450	1,260	x	10	0	1	x	x	OL	15	AC
	St. Louis, Mis	3,520	20	x	74	0	2	38	0.17	L	7	AC
	Salem, Mis	3,795	40	x	1	0	0	39	x	L	8	AC
Bartelso; Clinton; 1-2N; 3W	2 or more pays			x	2	0	0					
					12	0	0					
	Carlyle(Cyp), Mis	985	900	36	106	1	0	49				St. P 4,212
	Silurian	2,420	530	x	70	1	0	36	0.20	S	15	D
			430	x	37	0	0	42	0.27	L	12	R
	Silurian	2,550	400	27	20	0	0	18	42	x	L	7 R
	Devonian	2,475	100	0	3	0	0	0	40	0.15	L	3 A
				Abd 1962								Dev 2,652
Bartelso W; Clinton; 1N; 3-4N	Cypress, Mis	960	230	4	19	0	0	11	x	S	15	A
			210	x	16	0	0					Dev 2,600

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964	Pro-duc-ing end of year			
Bartelsow (cont.)	Silurian	2,439	1961	20	x	x	1	0	0		x x	L 7 A	Dev 2,600
Beaucoup; Washington; 2S; 2W	Clear Creek, Dev	3,050	1951	280	2	358	14	0	0	14	x	A	Trn 4,192
	Trenton, Ord	4,095		280	x	x	14	0	0		x x	L 12 A	
	2 or more pays			20	x	x	1	0	0		x x	L 5 A	
							1	0	0				
•Beaucoup S; Washington; 2S; 2W	Benoist, Mis	1,430	1951	230	36	740	22	0	0	14	x	S 9 AL	Dev 3,122
•Beaver Creek; Bond, Clinton; 3-4N; 2-3W	Benoist, Mis	1,130	1942	160	4	229	16	0	0	8	34	S 6 A	Sil 2,558
Beaver Creek N; Bond; 4N; 3W	Benoist, Mis	1,115	1949	50	0	1	6	0	0	2	x	S 4 A	Dev 2,556
					Abd 1954; rev 1958								
•Beaver Creek S <sup>†</sup> ; Clinton, Bond; 3-4N; 2-3W	Cypress, Mis	1,005	1946	490	23	529	49	0	1	28		A	Sil 2,606
	Benoist, Mis	1,140		10	0	0	1	0	0		x	S 20 A	
				480	23	529	48	0	1		x x	S 5 A	
Beckemeyer Gas <sup>†</sup> ; Clinton; 2N; 3W	Cypress, Mis	1,070	1956	10	0	0	1	0	0	0	x	S 23 X	Sil 2,730
•Bellair; Crawford, Jasper; 8N; 14W			1907	1,750	x	x	528	1	20	63		AM	Mis 1,471
					See Clark County Div. for production								
	"500 ft.", Pen	560		x	x	x	313	0	x		32	S 30 AM	
	"800 ft.", Pen	815		x	x	x	76	0	x		x	S x AM	
	"900 ft.", Mis	885		x	x	x	186	1	x		37	S x AM	
	Cypress, Mis	1,210		10	x	x	1	0	0		x	S 4 AM	
	Renault, Mis	830		30	x	x	5	0	x		x	S 6 AM	
	Aux Vases, Mis	800		120	x	x	11	0	x		x	S x AM	
	Ohara, Mis	860		20	x	x	1	0	x		x	L 4 A	
Belle Prairie; Hamilton; 4S; 6-7E	Aux Vases, Mis	3,250	1940	260	8	756	14	0	0	3		A	Dev 5,483
	McClosky, Mis	3,420		30	x	x	3	0	0		37	S 8 AC	
	2 or more pays			240	x	x	12	0	0		37	L 6 AC	
							1	0	0				
Belle Prairie W; Hamilton; 4S; 5E	Harrodsburg, Mis	4,206	1959	40	0	0.5	1	0	0	0	x	L 6	Mis 4,389
					Abd 1960								
Belle Rive; Jefferson; 3S; 4E	McClosky, Mis	3,085	1943	220	4	369	6	0	0	4	39	L 6 AC	Mis 4,200
Bellmont; Wabash; 1S; 13-14W	Bethel, Mis	2,650	1951	70	0	73	4	0	0	1		M	Mis 3,006
	Ohara, Mis	2,840		0	0	11	1	0	0		x	S 7 ML	
				60	0	62	3	0	0		x	L 7 MC	
•Beman; Lawrence; 3N; 11W	Aux Vases, Mis	1,805	1942	620	3	276	29	1	0	14		A	Mis 2,000
	Ste. G, Mis	1,850		60	x	x	6	1	0		x	S 20 AL	
	2 or more pays			610	x	x	25	1	0		38	L 7 AC	
							4	1	0				
Beman E; Lawrence; 3N; 10W			1947	100	0	108	5	0	0	0		A	Mis 1,907
					Abd 1960								
	Aux Vases, Mis	1,805		20	x	x	2	0	0		x	S 20 AL	
	Ste. G, Mis	1,860		90	x	x	4	0	0		x	L 7 AC	
	2 or more pays						1	0	0				

Bennington S; Edwards; 1N; 10E	McClosky, Mis	3,240	1944	20	0	10	1	0	0	0	0	x	x	L	8	MC	Mis	3,420
•Benton; Franklin; 6S; 2-3E	Pennsylvanian	1,700	1941	2,440	407	37,389	262	2	1	31		x	x	S	9	A	Trn	6,250
	Tar Springs, Mis	2,100		20	0	x	2	0	0			38	x	S	10	A		
	Aux Vases, Mis	2,752	1959	2,400	x	x	244	0	1			x	x	S	15	A		
	Ohara, Mis	2,804	1959	220	x	x	19	2	0			x	x	L	8	A		
	McClosky, Mis	2,906	1960	80	x	x	11	0	0			x	x	OL	4	AC		
	St. Louis, Mis	2,990	1960	20	x	x	4	0	0			x	x	L	6	A		
	Harrodsburg, Mis	3,705	1960	20	x	x	1	0	0			x	x	L	5	A		
	2 or more pays		1958	20	x	x	14	0	0									
Benton N; Franklin; 5-6S; 2E	Cypress, Mis	2,460	1941	790	50	2,317	63	0	0	49		x	x	S	17	A	Mis	3,700
	Paint Creek, Mis	2,501	1962	130	x	x	13	0	0			x	x	S	8	X		
	Bethel, Mis	2,600		190	x	x	19	0	0			38	0.15	S	20	AL		
	Aux Vases, Mis	2,685		110	x	x	9	0	0			37	0.16	S	10	A		
	Ohara, Mis	2,730		240	x	x	12	0	0			37	0.70	L	8	A		
	Spar Mtn, Mis	2,775		160	x	x	8	0	0			38	0.15	S	6	A		
	McClosky, Mis	2,800		360	x	x	18	0	0			x	x	L	10	A		
	2 or more pays						14	0	0									
Berry; Sangamon; 15N; 3W	Devonian	1,743	1961	500	40	106	25	4	1	18		x	x	S	4	X	Sil	1,796
	Silurian	1,736	1962	40	x	x	23	0	0			x	x	L	35	X		
			1961	440	x	x	2	4	1									
•Berryville C; Wabash, Edwards; 1-2N; 14W	Ohara, Mis	2,900	1943	540	5	993	19	0	1	1		x	x	L	6	MC	Mis	3,125
	Spar Mtn, Mis	2,850		120	x	x	6	0	0			x	x	L	12	MC		
	McClosky, Mis	2,890		20	x	x	2	0	0			x	x	L	10	MC		
	2 or more pays			420	x	x	12	0	1			36	x	L	10	MC		
							1	0	0									
Bessie; Franklin; 6S; 3E	Ohara, Mis	2,895	1943	40	3	108	1	0	0	1		39	0.15	L	10	MC	Mis	3,457
Bible Grove N; Effingham; 6N; 7E	Cypress, Mis	2,535	1947	130	2	89	7	0	0	1		36	x	S	7	M	Mis	2,999
	Spar Mtn, Mis	2,835		50	x	x	4	0	0					LS	5	ML		
	McClosky, Mis	2,875		40	x	x	1	0	0			x	x	L	5	M		
	2 or more pays			60	x	x	3	0	0			x	x	L	5	M		
							1	0	0									
Bible Grove S; Clay; 5N; 7E	Cypress, Mis	2,500	1942	50	3	125	3	0	0	2				M			Mis	2,953
	Aux Vases, Mis	2,740		10	x	x	1	0	0			x	x	S	10	ML		
				40	x	x	2	0	0			38	x	S	10	ML		
•Blackland; Macon, Christian; 15N; 1E-1W	Silurian	1,935	1953	910	11	453	39	2	0	18		39	x	L	12	MU	Ord	3,780
Blackland N; Macon; 16N; 1E	Silurian	1,948	1960	280	18	207	14	1	3	11		x	x	L	11	M	Sil	2,164
Black River; White; 4S; 13W	Clore, Mis	1,865	1952	10	2	31	1	0	0	1		x	x	S	6	X	Mis	3,071
Blairsville W; Hamilton; 4S; 7E	Spar Mtn, Mis	3,345	1951	200	3	402	10	0	0	1		x	x	L	6	AC	Mis	3,507
	McClosky, Mis	3,405		20	x	x	1	0	0			x	x	L	8	AC		
	2 or more pays			200	x	x	10	0	0			x	x	L	8	AC		
							1	0	0									
Bluford; Jefferson; 2S; 4E	McClosky, Mis	3,060	1961	40	9	34	2	0	0	2		x	x	OL	6	X	Mis	3,833
Bogota; Jasper; 6N; 9E	Spar Mtn, Mis	3,090	1943	300	5	501	10	0	0	2		x	x	L	4	AC	Mis	3,234
	McClosky, Mis	3,110		280	x	x	1	0	0			35	x	L	7	A		

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			To end of 1964	Completed to end of 1964	Com-pleted in 1964	Pro-duced end of year					
Bogota N; Jasper; 6N; 9E	McClosky, Mis	3,080	1949	20	0	0	1	0	0	0	x	L 3 X	Mis 3,647
				Abd 1950									
Bogota S; Jasper; 5-6N; 9E	McClosky, Mis	3,075	1944	480	8	501	23	0	0	17	35 X	L 8 MC	Mis 3,182
•Bone Gap C; Edwards; 1S; 10-11E, 14W	Pennsylvanian	2,110	1941	1,240	38	2,242	60	0	1	19	x	A	Mis 3,350
	Waltersburg, Mis	2,310		10	0	2	1	0	0		x	S 8 AL	
	Cypress, Mis	2,710		70	x	x	16	0	0		35 x	S 20 A	
	Bethel, Mis	2,880		30	x	x	7	0	0		x	S 10 A	
	Aux Vases, Mis	3,020		10	0	10	1	0	0		x	S 14 AL	
	Ohara, Mis	3,040		80	x	x	4	0	0		x	S 9 AL	
	Spar Mtn, Mis	3,045		100	x	x	5	0	0		x	L 5 AC	
	McClosky, Mis	3,200		800	x	x	24	0	1		41	L 6 AC	
	2 or more pays						2	0	0				
Bone Gap E; Edwards; 1S; 14W			1951	40	0	13	2	0	0	0		M	Mis 3,156
	Ohara, Mis	2,980		20	0	13	1	0	0		x	L 10 MC	
	McClosky, Mis	3,050		20	0	0	1	0	0		x	L 5 MC	
Bone Gap W; Edwards; 1S; 10E	Ste. G, Mis	3,290	1954	40	13	15	2	1	0	1	x	L 5 X	Mis 3,504
					Abd 1955; rev 1964								
•Boulder <sup>†</sup> ; Clinton; 2-3N; 2W	Benoist, Mis	1,190	1941	750	384	8,120	55	0	10	9	36 x	S 20 D	Trn 3,813
	Geneva, Dev	2,630		550	x	x	33	0	9		28	D 7 R	
Boulder E <sup>†</sup> ; Clinton; 3N; 1W	Devonian	2,850	1955	60	7	56	3	0	0	1	x	L 5 X	Dev 2,946
•Bourbon C; Douglas; 15N; 7E	Spar Mtn, Mis	1,600	1956	1,030	34	1,702	83	0	7	26	34 x	LS 12 NC	Mis 2,275
Bourbon S; Douglas; 15N; 7E	Spar Mtn, Mis	1,693	1960	20	0	0	1	0	1	0	x	S 12 NC	Mis 1,706
Bowyer; Richland; 5N; 14W	Spar Mtn, Mis	2,883	1958	20	Abd 1964	10	1	0	0	1	36 x	S x X	Mis 2,950
•Boyd; Jefferson; 1S; 1-2E	Benoist, Mis	2,060	1944	1,450	95	14,418	118	0	0	88			Dev 3,870
	Aux Vases, Mis	2,130		1,440	x	x	113	0	0		39	S 19 A	
	Ohara, Mis	2,230		690	x	x	45	0	0		39 x	S 15 A	
	2 or more pays			40	x	x	24	0	0		39 x	L 2 AC	
							36	0	0				
Broughton; Hamilton; 6S; 7E	McClosky, Mis	3,275	1951	20	0	6	1	0	0	0	x	L 5 X	Mis 3,355
					Abd 1954								
Broughton S; Saline; 7S; 7E	McClosky, Mis	3,215	1951	20	0	0	1	0	0	0	x	L 4 X	Mis 3,300
					Abd 1952								
•Brown; Marion; 1N; 1E	Cypress, Mis	1,670	1910	120	3	x	12	0	0	10	x	S x N	Mis 2,036
•Browns; Edwards; Wabash; 1-2S; 14W	Biehl, Pen	1,870	1943	1,090	93	2,149	63	6	4	32	x	S 8 X	Dev 5,200
	Tar Springs, Mis	2,365	1962	10	x	x	1	0	0		x	S 14 AL	
	Cypress, Mis	2,640		10	x	x	1	0	0		x	S 13 A	
	Bethel, Mis	2,785		320	x	x	25	0	4		35	S 12 AL	
				70	x	x	5	0	0		35 x	S 12 AL	



Browns (cont.)	Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,965 2,965 2,975 3,000	10 160 20 600	x x x x	x x x x	1 8 1 35 10	0 6 0 0 0	0 0 0 0 0	x x x 35 x	S L L L	7 4 3 6 A	AL AC AC A
•Browns E; Wabash; 1-2S; 14W	Pennsylvanian Cypress, Mis	1,844 2,570	690 10 680	23 x x	2,718 x x	69 1 68	2 0 2	0 0 0	28 x 36	S S	13 ML	Mis 3,113
Browns S; Edwards; 2S; 14W	Bethel, Mis Aux Vases, Mis 2 or more pays	2,850 2,950	40 20 30	0 x x	21 x x	4 2 3 1	0 0 0 0	0 0 0 0	1 x x x	S S S	N 15 8 NL NL	Mis 3,095
Buckhorn; Brown; 1S; 4W	Silurian	682	20	0 Abd 1964	0	1	0	1	0 x x	D	3 X Sil	685
Buckner; Franklin; 6S; 2E	Aux Vases, Mis	2,601	10	0	0	1	0	0	1 x x	S	12 X	Mis 2,776
Bulpitt S; Christian; 13N; 3W	Dev-Sil	1,911	80	0.3	3	4	1	0	2 x x	L	15 X Dev-Sil	1,939
•Bungay C; Hamilton; 4S; 7E	Renault, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis Harrodsburg, Mis 2 or more pays	3,270 3,295 3,335 3,400 3,425 4,190	3,460 200 3,090 80 80 280 20	383 x x x x x x	11,253 x x x x x x	247 18 193 3 2 14 1 7	2 2 0 0 0 0 0 0	5 0 5 0 0 0 0 0	142 x 37 x x 37 x x	S S L L L L L	A 10 15 8 8 8 10 AC	Dev 5,566
Burnt Prairie S; White; 4S; 9E	Aux Vases, Mis Ohara, Mis McClosky, Mis	3,330 3,415 3,460	70 10 20 40	0.3 0.3 0	27 10 10 7	4 1 1 2	0 0 0 0	0 0 0 0	1 x x x	S L L	24 X 6 X 4 X	Mis 3,565
Calhoun Cen; Richland; 2N; 10E	Spar Mtn, Mis McClosky, Mis	3,245 3,280	60 40 20	0 0 0	0.5 x x	3 2 1	0 0 0	0 0 0	0 x x	M L L	M 6 3 MC MC	Mis 3,355
•Calhoun C; Richland, Wayne; 2-3N; 9-10E	Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	3,140 3,160 3,180	2,460 x x x	36 x x x	3,872 x x x	103 22 24 61 14	0 2 0 0 0	13 2 2 11 2	5 x x 38 0.15	OL OL OL OL	A 9 6 10 A	Mis 4,039
•Calhoun E; Richland; 2N; 10-11E	McClosky, Mis	3,265	160	0.7	220	5	0	0	4 39 x	L	5 MC	Mis 3,380
Calhoun N; Richland; 3N; 10E	Spar Mtn, Mis McClosky, Mis 2 or more pays	3,155 3,170	60 20 60	0.6 x x	69 x x	3 1 3 1	0 0 0 0	0 0 0 0	1 x x x	LS OL	10 A 11 A	Mis 3,280
Calhoun S; Wayne, Richland, Edwards; 2N; 9E	Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	3,175 3,232 3,224 3,209	320 10 40 140 200	105 x x x x	272 x x x x	16 1 2 7 9 3	0 0 0 0 0 0	0 0 0 0 0 0	15 x x x x	Mis 3,406		
Carlinville <sup>†</sup> ; Macoupin; 9N; 7W	Unnamed, Pen	380	80	x Abd 1925; rev 1942	x	8	0	0	3 28 x	S	x A	Mis 1,380

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township (- Secondary recovery - see Part II)	Pay zone		Year of dis- covery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com- pleted in 1964	Aban- doned 1964	Pro- ducing end of year		
Carlinville N <sup>†</sup> ; Macoupin; 10N; 7W	Pottsville, Pen	440	1941	120	0	1	6	0	0	0	S 10 X	Trn 1,970
	Abd 1954											
Carlinville S; Macoupin; 9N; 7W	Pennsylvanian	539	1958	10	0	0	1	0	1	0	S x X	Pen 1,020
Carlyle; Clinton; 2N; 3W	Golconda, Mis Carlyle (Cyp), Mis 1,035 2 or more pays	900	1911	940	15	3,991	188	1	0	24	L 10 AC S 20 AL	St. P 4,120
				950	x	x	183	1	0			
							1	0	0			
Carlyle E; Clinton; 2N; 2W	Benoist, Mis	1,197	1963	10	0	0	1	0	0	1	S 4 X	Mis 1,245
Carlyle N; Clinton; 3N; 3W	Benoist, Mis	1,150	1950	510	30	682	45	4	0	37	S 6 AL	Dev 2,558
Carlyle S; Clinton; 1N; 3W	Cypress, Mis	1,075	1951	20	0	2	2	0	0	0	S 4 X	Mis 1,194
	Abd 1953											
Carmi; White; 5S; 9E			1939	230	13	291	18	0	0	6	M	Mis 3,340
					Abd 1949; rev 1952							
	Pennsylvanian	1,210		10	x	x	1	0	0		S 10 ML	
	Cypress, Mis	2,800		60	x	x	7	0	0		S 15 ML	
	Aux Vases, Mis	3,145		40	x	x	4	0	0		S 8 ML	
	McClosky, Mis	3,150		120	x	x	6	0	0		OL 6 MC	
Carmi N; White; 5S; 9E	Cypress, Mis	2,940	1942	110	4	255	6	0	0	3	A	Mis 3,452
	Sample, Mis	3,080		20	x	x	1	0	0		S 13 AF	
	Aux Vases, Mis	3,270		10	x	x	1	0	0		S 12 AF	
	2 or more pays			100	x	x	5	0	0		S 14 AF	
							1	0	0			
Casey; Clark; 10-11N; 14W			1906	2,320	x	x	509	4	2	256	AM	Trn 2,608
					See Clark County Div. for production							
	Upper Gas, Pen	265		210	x	x	43	1	x		S x AM	
	Lower Gas, Pen	300		420	x	x	85	1	x		S x AM	
	Casey, Pen	445		1,610	x	x	371	2	x		S 10 AM	
	Carper, Mis	1,300		250	x	x	20	0	x		S 50 AM	
Centerville; White; 4S; 9E	Aux Vases, Mis	3,240	1940	260	5	516	13	0	1	4	N	Mis 3,919
	Ohara, Mis	3,310		10	x	x	1	0	0		S 6 NL	
	Spar Mtn, Mis	x		140	x	x	6	0	1		L 10 NC	
	McClosky, Mis	3,370		40	x	x	2	0	1		L x NC	
	2 or more pays			140	x	x	6	0	0		OL 4 NC	
							2	0	1			
Centerville E; White; 3-4S; 9-10E	Palestine, Mis	2,225	1941	1,440	850	6,417	134	1	9	63	A	Mis 3,427
	Tar Springs, Mis	2,500		20	x	x	2	0	0		S 3 Alf	
	Hardinsburg, Mis	2,615		430	x	x	34	0	3		S 24 Alf	
	Cypress, Mis	2,915		10	x	x	1	0	0		S 22 Alf	
	Bethel, Mis	2,990		430	x	x	46	0	3		S 6 Alf	
	Aux Vases, Mis	3,075		220	x	x	20	0	1		S 20 Alf	
	Ohara, Mis	3,175		370	x	x	38	0	1		S 21 Alf	
	Spar Mtn, Mis	3,185		80	x	x	4	0	1		OL 5 ACF	
	McClosky, Mis	3,230		20	x	x	1	0	0		LS 6 ACF	
	2 or more pays			320	x	x	16	0	1		OL 7 ACF	
							19	0	1			



Centerville N; White; 3S; 10E	Bethel, Mis	2,990	1947	10	0	0	1	0	0	0	0	0	0	x	x	S	13	ML	Mis	3,290
				Abd 1948																
Centerville NE; White; 3S; 10E	Bethel, Mis	3,055	1955	10	0	6	1	0	0	0	0	0	0	x	x	S	14	X	Mis	3,407
				Abd 1959																
•Central City; Marion; 1N; 1E	Pennsylvanian	826	1964	70	3	3	7	7	0	7						S	10		Mis	1,942
•Centralia; Clinton, Marion; 1-2N; 1E, 1W	Petro, Pen	765	1937	3,550	697	52,411	1,020	0	2	309			x	x		S	x	A	Ord	4,170
	Cypress, Mis	1,200	1958	40	x	x	4	0	0				36	0.20	S	12	A			
	Benoist, Mis	1,355		570	x	x	57	0	0				37	0.17	S	20	A			
	Devonian	2,870		1,500	x	x	319	0	1				40	0.38	L	9	A			
	Trenton, Ord	3,930		2,500	x	x	59	0	1				40	x	L	22	A			
	2 or more pays			1,400	x	x	2	0	0											
Centralia W; Clinton; 1N; 1W	Cypress, Mis	1,308	1940	90	2	407	10	0	0	1			x	x		S	4	N	Dev	3,021
	Benoist, Mis	1,440	1940	90	x	x	9	0	0				38	0.17	S	9	N			
Chesterville; Douglas; 15N; 7E	Spar Mtn, Mis	1,780	1956	100	0.7	34	5	0	0	1			x	x	LS	8	ML	Mis	1,829	
•Chesterville E; Douglas; 14-15N; 7-8E	Spar Mtn, Mis	1,720	1957	410	98	894	41	0	4	27			39	x	S	10	NC	Mis	1,785	
Christopher S; Franklin; 7S; 1E	Aux Vases, Mis	2,620	1964	40	2	2	3	3	0	3						S	8		Mis	2,820
	Ohara, Mis	2,690	1964	20	x	x	1	1	0				1	0	L	10				
	2 or more pays						1	1	0											
Clark County Division; Clark, Coles, Crawford, Cumberland, Jasper				27,560	764	80,601	5,656	23	55	1,803									St. P	3,411
				Totals for Ballair, Casey, Johnson N, Johnson S, Martinsville, Siggins, Westfield, and York Pools.																
Clarksburg; Shelby; 10N; 4E	Aux Vases, Mis	1,770	1946	40	4	39	4	0	0	3			34	x	S	6	A	Dev	3,206	
•Clay City C; Clay, Wayne, Richland, Jasper; 1-7N, 1-2S; 6-11E	Waltersburg, Mis	2,175	1937	92,340	5,137	242,497	4,942	70	218	2,415			x	x	S	6	AL	A	St. P	7,205
	Tar Springs, Mis	2,560		10	x	x	1	0	0				37	x	S	15	AL			
	Cypress, Mis	2,635		160	x	x	8	0	0				34	x	S	15	AL			
	Bethel, Mis	2,800		6,340	x	x	510	10	15				x	x	S	15	AL			
	Aux Vases, Mis	2,940		140	x	x	13	1	0				39	x	S	15	AL			
	Ohara, Mis	3,020		16,600	x	x	1,632	29	112				38	x	OL	5	AC			
	Spar Mtn, Mis	3,030		x	x	x	188	3	3				38	x	LS	8	AC			
	McClosky, Mis	3,050		x	x	x	508	7	29				40	x	OL	10	AC			
	St. Louis, Mis	3,025	1949	x	x	x	2,495	27	75				x	x	L	3	A			
	Salem, Mis	3,590		380	x	x	19	0	2				38	x	L	10	A			
	Warsaw, Mis	3,600		2,180	x	x	110	4	2				x	x	L	17	A			
	Devonian, Dev	4,350	1949	10	x	x	1	0	0				x	x	L	10	A			
	2 or more pays			60	x	x	314	13	19											
•Clay City W C; Clay, Wayne; 2N; 7E	Cypress, Mis	2,700	1941	2,010	151	3,344	131	6	15	61			x	x	S	10	AL	A	Dev	4,973
	Aux Vases, Mis	2,970		10	x	x	1	0	0				x	x	S	10	AL			
	Ohara, Mis	3,082	1961	730	x	x	72	3	8				x	x	S	10	AL			
	Spar Mtn, Mis	3,106	1961	40	x	x	2	1	0				x	x	L	6	A			
	McClosky, Mis	3,090		120	x	x	6	0	1				x	x	L	7	A			
	St. Louis, Mis	3,174	1961	1,330	x	x	59	0	7				37-39	0.12	OL	x	A			
	Salem, Mis	3,565	1962	20	x	x	1	0	0				x	x	L	5	A			
	2 or more pays			220	x	x	11	2	2				x	x	L	13	X			
							13	0	2											
Clifford; Williamson; 8S; 1E	Aux Vases, Mis	2,380	1957	30	0.8	15	2	0	0	2			x	x	S	7	X	Mis	2,625	
	Spar Mtn, Mis	2,470	1957	20	x	x	2	0	0				x	x	LS	7	X			
	McClosky, Mis	2,540	1957	20	x	x	1	0	0				x	x	L	5	X			
	2 or more pays		1957	20	x	x	1	0	0											



Corinth (cont.)	Ohara, Mis Spar Mtn, Mis 2 or more pays	2,929 2,985 1957	20 40	x x	x x	1 2 3	0 0 0	0 0 0	x x x	L L	x 10 X	X
Corinth E; Williamson; 8S; 4E	McClosky, Mis	3,035 1957	20	0 Abd 1960	11	1	0	0	0 x x	L L	10 X	Mis 3,113
Corinth N; Williamson; 8S; 4E	Aux Vases, Mis	2,935 1957	10	0 Abd 1960	4	1	0	0	0 x x	S	16 X	Mis 3,180
Cottage Grove; Saline; 9S; 7E	Ohara, Mis	2,770 1955	20	0 Abd 1963	13	1	0	0	0 x x	L	x X	Mis 2,977
Coulterville N; Washington; 3S; 5W	Silurian	2,290 1958	80	1	26	4	0	0	3 x x	L	x X	Ord 3,204
Covington S; Wayne; 2S; 6E	McClosky, Mis St. Louis, Mis Harrodsburg, Mis	3,310 3,361 4,148 1943 1943 1962 1960	560 400 20 140	27 x x x	341 x x x	18 12 1 5	0 0 0 0	0 0 0 0	7 39 0.18 x x x	L L L	S AC 4 X 12 AC	Dev 5,300
Craig; Perry; 4S; 4W	Trenton, Ord	3,650 1948	20	0 Abd 1951	2	1	0	0	0 35 x	L	20 A	Ord 3,735
Cravat; Jefferson; 1S; 1E	Benoist, Mis	2,070 1939	120	3	366	11	0	0	6 35 0.23	S	10 A	Dev 3,850
Cravat W; Jefferson; 1S; 1E	Pennsylvanian Bethel, Mis	1,045 2,070 1956 1960	140 130 10	11 11 0	92 92 0	15 14 1	0 0 0	1 0 1	x x x	S S	10 X 10 X	Mis 2,382
Crossville; White; 4S; 10E	Bethel, Mis Aux Vases, Mis Ohara, Mis McClosky, Mis 2 or more pays	2,880 3,030 3,100 3,120 1946 1956	130 30 30 20 60	0 0 0 0	16 x x x	11 3 3 4 1	0 0 0 0 0	0 0 0 0 0	0 x x x x	M S S L L	Mis 3,283	
Crossville W; White; 4S; 10E	Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	3,030 3,110 3,102 3,185 1952 1958 1958 1956	210 90 20 10 140	9 x x x	310 rev 1956	15 9 1 1 7 2	0 0 0 0 0 0	0 0 0 0 0 0	10 x x x x	M S S L L	Mis 3,292	
Dahlgren; Hamilton; 3S; 5E	McClosky, Mis Harrodsburg, Mis	3,300 4,110 1941 1956	700 700 20	2 2 0	1,199 1,197 2	44 43 1	0 0 0	0 0 0	2 39 0.16 x x	L L	11 A 15 A	Dev 5,299
Dahlgren W; Jefferson; 4S; 4E	Harrodsburg, Mis	4,019 1960	40	2	28	2	0	0	2 x x	L	6 X	Dev 5,245
Dale C; Franklin, Hamilton, Saline; 5-7S; 4-7E	Tar Springs, Mis Hardinsburg, Mis Cypress, Mis Bethel, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,430 2,480 2,700 2,975 3,150 3,110 3,130 3,150 1940 1940	19,220 400 100 940 2,360 13,950 2,340 460 2,920	1,987 x x x x x x x	78,706	1,527 39 10 100 253 1,240 102 13 137 147	11 0 0 0 0 8 2 0 2 2	63 0 0 2 55 39 38 38 40	x x x x 0.19 0.15 0.22 x 0.19	S S S S S L LS L	25 A 10 A 15 A 18 A 20 A 7 A 7 A	Dev 5,481
Decatur; Macon; 16-17N; 2E	Silurian	2,000 1953	120	0 Abd 1959	15	6	0	0	0 x x	L	7 MU	Ord 2,800

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (- Secondary recovery - see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil		Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Sulfur Gr. API (%)	Kind of rock, av. thickness in feet, structure	
Decatur N; Macon; 17N; 3E	Silurian	2,200	1954	20	0	0.1	1	0	0	0	x	L 10 MU	Sil 2,240
			Abd 1955										
•Deering City; Franklin; 7S; 3E	Aux Vases, Mis	2,810	1957	100	32	233	8	2	0	7	x	S 20	Mis 3,020
	McClosky, Mis	2,913	1963	40	2	5	2	1	0		x	OL 4 X	
•Divide C; Jefferson; 1S; 3-4E	Aux Vases, Mis	2,620	1943	4,160	292	7,707	222	5	14	161	38	S 10 AL	Dev 4,700
	Ohara, Mis	2,700		110	x	x	10	0	0		x	L 10 AC	
	Spar Mtn, Mis	2,700		400	x	x	8	0	0		39	LS 6 A	
	McClosky, Mis	2,750		2,980	x	x	20	0	1		38	L 6 AC	
	St. Louis, Mis	2,840	1955	460	x	x	145	5	11		x	L 7 AC	
	Salem, Mis	3,190	1960	1,080	x	x	21	1	0		x	L 10 AC	
	2 or more pays						54	2	3		x		
							29	2	0				
Divide S; Jefferson; 2S; 3E	McClosky, Mis	2,880	1948	300	15	467	15	0	1	4	35	L 5 X	Mis 3,575
Dix S; Jefferson; 1S; 2E	Benoist, Mis	1,950	1941	20	0	13	2	0	0	0	x	S 8 N	Mis 2,283
			Abd 1946										
•Dollville; Shelby; 12N; 2E	Bethel, Mis	1,509	1961	50	5	12	5	0	1	4	35	S 4 X	Mis 1,600
Dubois Cen; Washington; 3S; 1W	Benoist, Mis	1,335	1954	140	18	122	12	0	0	9	x	X	Dev 3,100
	Spar Mtn, Mis	1,530	1954	60	x	x	12	0	0		x	S 12 X	
	2 or more pays						3	0	0		x	L 8 X	
							2	0	0				
•Dubois C <sup>†</sup> ; Washington; 3S; 1-2W	Cypress, Mis	1,230	1939	1,180	68	1,409	106	0	0	89	x	A	Ord 4,217
	Benoist, Mis	1,325		830	x	x	72	0	0		32	S 10 AL	
	2 or more pays			500	x	x	36	0	0		0.26	S 10 AL	
							2	0	0				
Dudley <sup>†</sup> ; Edgar; 13-14N; 13W	Upper Dudley, Pen	310	1948	610	48	1,066	78	2	0	66	36	M	St. P 2,997
	Lower Dudley, Pen	410		260	x	x	20	0	0		x	S 20 ML	
	Devonian	2,370	1954	40	0	3	58	2	0		25	S 50 ML	
			Abd 1961								x	L 5 X	Ord 3,397
Dupo; St. Clair; 1N, 1S; 10W	Trenton, Ord	700	1928	1,020	x	x	321	0	0	28	33	L 50 A	Ord 1,800
Eberle; Effingham; 6N; 6E	Cypress, Mis	2,475	1947	150	2	111	9	0	0	1	36	N	Mis 2,882
	Spar Mtn, Mis	2,680		30	x	x	3	0	0		x	S 10 ML	
	McClosky, Mis	2,820		40	x	x	2	0	0		x	LS 5 NC	
				80	x	x	4	0	0		36	L 7 N	
Edinburg; Christian; 14N; 3W	Cedar Valley, Dev	1,810	1949	20	0	0	1	0	0	0	x	L 2 A	Dev 1,853
			Abd 1951										
Edinburg S; Christian; 14N; 3W	Hibbard, Dev	1,795	1955	40	0	4	2	0	0	0	x	LS 13 X	Sil 1,902
•Edinburg W; Christian, Sangamon; 14N; 3-4W	Devonian	1,660	1954	1,990	147	2,257	99	7	6	77	41	S 6 A	Ord 2,285
				90	x	x	5	1	0		x		



Edinburg W (cont.)	Silurian 2 or more pays	1,690	1,940	x	x	96	4	6	41	x	L	8	A		
Elba; Gallatin; 8S; 8E			1955	180	0	25	13	0	0					Mis 2,991	
				Abd 1960											
	Cypress, Mis	2,617	1958	10	x	x	1	0	x	x	S	x	X		
	Bethel, Mis	2,660		50	x	x	3	0	x	x	S	10	X		
	Renault, Mis	2,770		10	x	x	1	0	x	x	L	3	X		
	Aux Vases, Mis	2,780		80	x	x	5	0	x	x	S	5	X		
	Ohara, Mis	2,820	1955	80	x	x	3	0	x	x	L	11	X		
	2 or more pays						3	0							
Elbridge; Edgar; 12-13N; 11W			1949	390	13	1,464	40	1	19	x	S	3	D	Trn 3,300	
	Pennsylvanian	760		20	x	x	2	0		35	L	3	D		
	Fredonia, Mis	950	1949	20	x	x	2	0		x	L	20	D		
	Devonian	1,950													
•Eldorado C <sup>†</sup> ; Saline; 8S; 6-7E			1941	2,930	182	7,135	282	2	22	199				Mis 3,606	
	Palestine, Mis	1,920		260	x	x	24	0	x	x	S	20	AL		
	Waltersburg, Mis	2,125		1,430	x	x	143	0	38	x	S	25	AL		
	Tar Spring, Mis	2,200		170	x	x	17	0	10	x	S	15	AL		
	Hardinsburg, Mis	2,350		300	x	x	30	0	2	x	S	8	AL		
	Cypress, Mis	2,575		160	x	x	15	2	2	x	S	8	AL		
	Sample, Mis	2,680		60	x	x	6	0	2	x	S	18	AL		
	Benoist, Mis	2,778	1962	10	x	x	1	0	0	x	S	10	X		
	Aux Vases, Mis	2,900		710	x	x	64	0	4	x	S	12	AL		
	Ohara, Mis	2,900		60	x	x	3	0	0	x	L	5	AC		
	Spar Mtn, Mis	2,900		40	x	x	2	0	0	x	LS	4	AC		
	McClosky, Mis	2,975		40	x	x	2	0	34	0.14	L	5	AC		
	2 or more pays						16	0	3						
•Eldorado E <sup>†</sup> ; Saline; 8S; 7E			1953	320	12	351	26	1	14	x		A		Mis 3,102	
	Palestine, Mis	1,915		20	x	x	2	0	0	x	S	10	AL		
	Tar Springs, Mis	2,190		20	x	x	2	0	0	x	S	10	AL		
	Cypress, Mis	2,515		30	x	x	3	0	0	x	S	20	AL		
	Aux Vases, Mis	2,885		240	x	x	19	1	1	x	S	6	AL		
	Spar Mtn, Mis	2,975		20	0	x	1	0	0	x	L	4	AC		
	2 or more pays						1	0	0						
Eldorado W <sup>†</sup> ; Saline; 8S; 6E			1955	60	0	46	6	0	2	x		X		Mis 3,138	
	Palestine, Mis	1,940		30	0	x	3	0	0	x	S	18	X		
	Renault, Mis	2,910	1955	20	0	x	2	0	0	x	L	6	X		
	Aux Vases, Mis	2,960		20	0	x	2	0	0	x	L	6	X		
	2 or more pays		1955				1	0	0						
Elk Prairie; Jefferson; 4S; 2E			1938	40	2	18	2	0	1					Mis 3,470	
				Abd 1940; rev 1960											
	McClosky, Mis	2,735	1938	40	x	x	2	0	0	x	L	7	X		
	Salem, Mis	3,076	1960	20	x	x	1	0	0	x	L	8	X		
	2 or more pays		1960				1	0	0						
Elkton; Washington; 2S; 4W			1955	40	0	3	2	0	0	x	L	30	X	Dev 2,485	
	Bailey, Dev	2,340			Abd 1960										
Elkville; Jackson; 7S; 1W			1941	10	0	4	1	0	0	36	0.22	S	10	X	Mis 2,387
•Ellery E; Edwards; 2S; 10E			1952	340	19	926	25	0	1	13	x	M		Mis 3,390	
	Aux Vases, Mis	3,180		160	x	x	13	0	1	x	S	35	ML		
	Ohara, Mis	3,255		180	x	x	11	0	0	x	L	6	MC		
	Spar Mtn, Mis	3,255		60	x	x	3	0	0	x	L	4	MC		
Ellery N; Edwards; 2S; 10E			1942	160	0	27	7	0	0	0	M			Mis 3,496	
				Abd 1943; rev & abd 1951; rev 1954			2	0	0	x	S	35	ML		
	Bethel, Mis	3,100		20	x	x	2	0	0						

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (•Secondary recovery — see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Kind of rock, av. thickness in feet, structure	Zone and depth (ft)
Ellery N (cont.)	Aux Vases, Mis 3,230 Spar Mtn, Mis 3,345 McClosky, Mis 3,420 2 or more pays			10	x	x	1	0	0		S 12 ML	
				80	x	x	4	0	0		S 8 ML	
				60	x	x	2	0	0		L 7 MC	
Ellery S; Edwards; 2-3S; 10E			1943	210	0	173	9	0	0	0		Mis 3,434
					Abd 1952; rev 1953; abd 1959; rev and abd 1960							
	Aux Vases, Mis 3,200 McClosky, Mis 3,300			50	0	35	5	0	0		S 15 ML	
				160	0	138	4	0	0		L 9 MC	
Elliotstown; Effingham; 7N; 7E	Spar Mtn, Mis 2,730		1947	20	0	14	1	0	0	0	S 8 HL	Mis 2,884
					Abd 1951							
Elliotstown E; Effingham; 7N; 7E			1954	110	15	66	6	0	0	4		Mis 2,867
					Abd 1956; rev 1962							
	Cypress, Mis 2,485 Spar Mtn, Mis 2,750 McClosky, Mis 2,771		1954 1962 1962	10 40 60	x x x	x x x	1 2 3	0 0 0	0 0 0		S 5 HL L 10 X L 8 X	
Elliotstown N; Effingham; 7N; 7E			1953	110	24	35	7	5	0	5		Mis 2,865
					Abd 1958; rev 1964							
	Cypress, Mis 2,430 Spar Mtn, Mis 2,666 McClosky, Mis 2,738		1953 1964 1964	20 10 80	x x x	x x x	2 1 4	0 1 4	0 0 0		S 4 HL L 3 OL 17	
			1950	340	27	845	22	1	1	11	A	Mis 4,259
					Abd 1951; rev 1952							
•Enfield; White; 5S; 8E	Aux Vases, Mis 3,250 Ohara, Mis 3,310 McClosky, Mis 3,385			170 80 100	x x x	x x x	13 4 5	1 0 0	0 0 1		S 10 AL L 4 AC L 8 AC	
			1961	40	0	0	2	0	0	0	X	Mis 3,314
					Abd 1963							
	Aux Vases, Mis 3,174 McClosky, Mis 3,277 2 or more pays		1961 1961 1961	20 40	0 0	0	1 2 1	0 0 0	0 0 0		S 2 X L 6 X	
			1948	90	3	100	5	0	0	4	A	Mis 2,808
					Abd 1949; rev 1953							
	Spar Mtn, Mis 2,610 McClosky, Mis 2,660			60 30	x x	x x	3 2	0 0	0 0		L 7 AL L 4 AC	
			1948	10	0	2	1	0	0	0	LS 8 AC	Mis 2,771
					Abd 1951							
Evers; Effingham; 8N; 7E			1944	150	1	512	8	0	0	2	A	Mis 3,877
	Aux Vases, Mis 2,835 McClosky, Mis 2,970			10 140	0 1	57 455	1 7	0 0	0 0		S 8 AL L 7 A	
Ewing E; Franklin; 5S; 3E	Ohara, Mis 3,010		1956	20	0	0	1	0	0	1	L 10 X	Mis 3,292
Exchange; Marion; 1N; 3E	Ohara, Mis 2,695 McClosky, Mis 2,730		1943	80 40 80	1 x x	67 x x	2 1 2	0 0 0	0 0 0	1	M L 10 MC L 8 MC	Mis 2,869



Exchange E; Marion; 1N; 4E	1955 1955	320 20	9 x	402 x	16 1	0 0	0 0	13 x	x x	L S	14 11	X X	Mis 3,006
Ohara, Mis	2,775												
Spar Mtn, Mis	2,780	180	x	x	7	0	0	x	x	S	11	X	
McClosky, Mis	2,840	180	x	x	6	0	0	x	x	L	4	X	
St. Louis, Mis	2,940	20	x	x	1	0	0	x	x	L	8	X	
2 or more pays					1	0	0						
Exchange N; Marion; 1N; 3-4E	1951	60	0	8	3	0	0	0	x	L	6	MC	Mis 2,831
McClosky, Mis	2,715		Abd 1952; rev 1955; abd 1959										
Exchange W; Marion; 1N; 3E	1957	40	1	12	2	0	0	2	x	L	6	X	Mis 2,779
McClosky, Mis	2,650												
Fairman; Marion, Clinton; 3N; 1E, 1W	1939 1939 1957	670 480 300	22 x x	1,910 x x	58 44 14	0 1 0	1 1 0	23 37 x	0.27 x	S L	10 20	A A	Ord 4,100
Benoist, Mis	1,435												
Trenton, Ord	3,950												
Benoist, Mis	1,749	10	0	0	1	0	0	0	x	S	3	X	Mis 1,889
Fancher; Shelby; 10N; 4E	1962		Abd 1962										
Aux Vases, Mis	2,672	10	2	4	1	0	0	1	x	L	8	X	Mis 2,795
Fehr Lake; Gallatin; 9S; 10E	1963												
Fitzgerrell; Jefferson; 4S; 1E	1944	10	0	16	1	0	0	0				X	Mis 3,012
Benoist, Mis	2,760	10	Abd 1952						x	S	5	X	
Aux Vases, Mis	2,800	10	0	x	1	0	0	x	x	S	x	X	
McClosky, Mis	2,985	100	0	168	4	0	0	0	39	L	6	AC	Mis 3,361
Flora S; Clay; 2N; 6E	1946		Abd 1961										
Forsyth; Macon; 17N; 2E	1963	40	4	4	2	1	0	2	x	L	14	X	Sil 2,220
Francis Mills; Saline; 7S; 7E	1952	20	4	87	1	0	0	1	x	S	5	X	Mis 3,238
Francis Mills S; Saline; 7S; 7E	1955	60	0	6	2	0	0	0					Mis 3,180
Ohara, Mis	3,010	40	Abd 1957; rev & abd 1962						x	L	11	X	
Spar Mtn, Mis	3,042	20	0	0	1	0	0	x	x	L	6	X	
Cypress, Mis	380	20	0	x	2	0	0	0	x	S	30	X	Ord 2,000
Freeburg <sup>†</sup> ; St. Clair; 1-2S; 7W (Now Freeburg Gas Storage Project)	1955												
Friendsville Cen; Wabash; 1N; 13W	1946	50	0	31	5	0	0	0	x	S	15	MC	Mis 2,630
Bethel, Mis	2,330		Abd 1956										
Friendsville N; Wabash; 1N; 12-13W	1946 1946 1959	150 140 10	4 x x	230 x x	18 17 1	0 0 0	0 0 0	6 x x	x x	MC S	12 11	MC M	Mis 2,592
Biehl, Pen	1,620												
Bethel, Mis	2,308												
Carlyle (Cyp), Mis	950	300	0	x	14	0	0	0	32	S	7	ML	Trn 3,290
Frogtown; Clinton; 2N; 3-4W	1918		Abd 1933; rev 1949; abd 1956										
Frogtown N; Clinton; 2-3N; 3-4W	1951 1951	580 100	25 x	1,884 x	34 5	0 0	1 0	22 x	x	L	10	D	Sil 2,456
St. Louis, Mis	1,200												
Dev-Sil	2,250	580	x	x	29	0	1	x	x	L	8	R	
Ohara, Mis	2,870	820	23	793	35	0	0	27	x	L	6	MC	Mis 2,961
Gards Point C; Wabash; 1N; 14W	1951												
Gays; Moultrie; 12N; 6E	1946	110	5	57	6	0	0	2				M	Dev 3,305
Aux Vases, Mis	1,970	100	x	x	5	0	0	36	x	S	5	ML	
Carper, Mis	2,963	10	3	4	1	0	0	x	x	S	16	X	
Devonian	3,205	20	x	x	1	0	0	x	x	L	3	MC	
2 or more pays					1	0	0						
Silurian	2,350	600	66	1,608	27	0	0	26	x	L	30	R	Trn 3,310

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (•Secondary recovery — see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil	Pay zone	Deepest test zone and depth (ft)
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year		
•Gila; Jasper; 7-8N; 9E	McClosky, Mis	2,850	1957	540	184	769	27	0	4	18	x	Mis 2,971
Gillespie-Wyen; Macoupin; 8N; 6W	Unnamed, Pen	650	1915	45	2	x	23	0	0	2	30	Ord 2,560
Glenarm; Sangamon; 14N; 5W	Silurian	1,680	1955	180	7	37	8	0	0	3	x	Sil 1,821
					Abd 1957; rev 1959; abd 1960; rev 1961							
•Goldengate C; Wayne, White, Edwards; 2-4S; 9-10E	Cypress, Mis	2,942	1938	7,930	802	14,518	477	3	13	298	x	Dev 5,522
	Bethel, Mis	3,110	1960	40	x	x	4	0	0		x	A
	Aux Vases, Mis	3,180		280	x	x	21	0	4		x	8 A
	Ohara, Mis	3,250		2,180	x	x	177	0	7		x	11 HL
	Spar Mtn, Mis	3,275		1,580	x	x	48	0	0		x	S 15 AL
	McClosky, Mis	3,310		2,020	x	x	66	0	0		39	OL 6 AC
	St. Louis, Mis	3,430		3,280	x	x	146	1	0		39	LS 7 AC
	Harrodsburg, Mis	4,125	1961	60	x	x	3	0	0		x	OL 7 AC
	Dutch Creek, Dev	5,346	1961	120	x	x	3	1	0		x	L 10 HL
	2 or more pays			640	x	x	16	0	0		x	L 9 A
							103	0	1			S 10
Goldengate E; Wayne; 3S; 9E	Ohara, Mis	3,290	1951	20	0	5	1	0	0	0	x	Mis 3,420
					Abd 1957							
Goldengate N C; Wayne; 1-2S; 8-9E	Bethel, Mis	3,095	1945	660	14	532	43	0	1	27	x	Mis 3,509
	Aux Vases, Mis	3,235		20	x	x	2	0	0		x	3 ML
	Ohara, Mis	3,300		280	x	x	27	0	1		x	S 25 ML
	Spar Mtn, Mis	3,325		120	x	x	6	0	0		37	L 4 MC
	McClosky, Mis	3,350		200	x	x	9	0	0		37	L 5 MC
	2 or more pays			200	x	x	10	0	0		x	L 6 MC
							13	0	0			
Grandview <sup>†</sup> ; Edgar; 12-13N; 13W	Pennsylvanian	560	1945	60	0	4	6	0	0	4	30	Ord 2,694
Grayson; Saline; 8S; 7E	Cypress, Mis	2,515	1957	60	1	18	3	0	0	1	x	Mis 3,045
	Aux Vases, Mis	2,913	1961	10	x	x	1	0	0		x	S 6 X
	McClosky, Mis	2,920		20	x	x	1	0	0		x	L 4 X
	2 or more pays			40	x	x	1	0	0		x	L 6 X
							1	0	0			
Greenville Gas <sup>†</sup> ; Bond; 5N; 3W	Lingle, Dev	2,240	1957	20	0	0	1	0	0	0	x	Trn 3,184
					Abd 1958							
•Half Moon; Wayne; 1S; 9E	Aux Vases, Mis	3,190	1947	1,210	90	2,412	62	0	1	45	x	Mis 3,510
	Ohara, Mis	3,280		20	x	x	1	0	0		x	S 18 ML
	Spar Mtn, Mis	3,280		740	x	x	36	0	1		x	L 11 MC
	McClosky, Mis	3,300		200	x	x	10	0	0		x	L 4 MC
	2 or more pays			400	x	x	21	0	0		27	L 10 MC
							6	0	0			
•Harco <sup>†</sup> ; Saline; 8S; 5E	Hardinsburg, Mis	2,330	1954	800	32	1,253	76	0	4	50	x	Mis 3,163
	Cypress, Mis	2,618	1956	10	x	x	1	0	0		x	S 6 X
	Sample, Mis	2,675	1959	10	x	x	1	0	0		x	S 8 X
	Aux Vases, Mis	2,860		680	x	x	61	0	2		x	S 15 X
	Ohara, Mis	2,965		100	x	x	6	0	0		x	L 10 X
	Spar Mtn, Mis	2,970		140	x	x	7	0	2		x	LS 10 X

[illegible]

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964	Pro-ducting end of year			
Hoffman; Clinton; 1N; 2W	Cypress, Mis 1,190 Benoist, Mis 1,320 2 or more pays		1939	260 120 180	6 x x	770 x x	48 13 36	0 0 0	0 0 0	25	x x 33	S 11 A S 7 A	Dev 2,914
Hoodville E; Hamilton; 5S; 7E	McClosky, Mis 3,365		1944	20	0	1	1	0	0	0	x	L 3 N	Mis 3,411
•Hord; Clay; 5N; 6E	Aux Vases, Mis 2,702 Ste. G, Mis 2,800		1950 1959 1950	330 60 270	10 x x	541 x x	19 6 13	0 0 0	3 0 3	2	37 37	S 10 M L 5 M	Mis 2,954
Hord N; Effingham; 6N; 6E	Cypress, Mis 2,430 Aux Vases, Mis 2,633		1958 1958 1959	50 30 30	13 x x	89 x x	6 3 3	0 0 0	0 0 0	4	33 x x	S x X S 10 X	Mis 2,860
•Hord S C; Clay; 5N; 6E	Aux Vases, Mis 2,735 Ste. G, Mis 2,790		1942	560	53	1,562	26	0	2	18		N	Mis 2,975
Hornsby S; Macoupin; 8N; 6W	Pennsylvanian 640		1956	40	0	x	4	0	0	0	x x	S 1 X	Pen 715
Hoyleton W; Washington; 1S; 2W	Clear Creek, Dev 2,895		1955	20	0	4	1	0	1	0	x x	L 12 X	Sil 2,965
Huey; Clinton; 2N; 2W	Benoist, Mis 1,260		1945	100	0	5	7	0	0	1	x	S 6 AL	Dev 2,770
Huey S; Clinton; 1-2N; 2-3W	Cypress, Mis 1,080 Silurian 2,585		1953 1956	230 120 120	12 x x	174 x x	19 13 6	0 0 0	0 0 0	11	x x x	S 5 X L 10 X	Sil 2,675
Hunt City; Jasper; 7N; 10E	Spar Mtn, Mis 2,540		1945	20	0	1	1	0	0	0	x x	S 10 ML	Mis 2,715
Hunt City E; Jasper; 7N; 14W	Fredonia, Mis 1,845		1952	20	0	4	1	0	0	0	40	L 6 X	Mis 1,908
Hutton; Coles; 11N; 10E	Pennsylvanian, Pen 530		1939	20	0	15	2	0	0	0	x x	S 15 X	Pen 770
•Ina; Jefferson; 4S; 2-3E	Renault, Mis 2,725 Aux Vases, Mis 2,682 Spar Mtn, Mis 2,775 McClosky, Mis 2,775 St. Louis, Mis 3,000 Salem, Mis 3,210 2 or more pays		1938 1958 1957 1957 1957	460 70 30 60 80 160 80	40 x x x x x x	624 x x x x x x	28 7 3 3 4 8 4	0 0 0 0 0 0 0	1 0 0 0 1 0 0	19	x x x x x 36 x	A S 14 AL S 26 A S 10 A L 10 A L 4 AC L 9 A	Mis 3,521
Ina N; Jefferson; 4S; 3E	McClosky, Mis 2,940		1949	20	0	1	1	0	0	0	x x	L 4 X	Mis 3,689



Inclose <sup>†</sup> ; Edgar, Clark; 12N; 13-14W	Isabel, Pen	345	1941	100	x	x	12	0	0	0	6	x	x	S	8	AL	Mis	1,600
•Ingraham; Clay; 4N; 8E			1942	690	0	830 Abd 1945; rev 1954	34	0	0	0	1				M		Mis	3,150
	Aux Vases, Mis	2,915		10	0	x	2	0	0	0		x	x	S	15	ML		
	Spar Mtn, Mis	3,000		620	0	x	28	0	0	0		37	0.21	L	7	MC		
	McClosky, Mis	3,075		100	0	x	5	0	0	0		37	0.21	L	8	MC		
•Inman E C; Gallatin; 7-8S; 10E			1940	3,930	444	19,952	400	16	2	212						A	Dev	5,043
	Pennsylvanian	780		10	x	x	4	0	0	0		38	x	S	10	AF		
	Pennsylvanian	1,450		40	x	x	1	0	0	0		x	x	S	4	AF		
	Degonia, Mis	1,690		50	x	x	4	0	0	0		37	x	S	10	AF		
	Clore, Mis	1,725		60	x	x	6	0	0	0		37	x	S	8	AF		
	Palestine, Mis	1,840		50	x	x	4	0	0	0		37	x	S	13	AF		
	Waltersburg, Mis	1,980		790	x	x	75	5	0	0		38	x	S	18	AF		
	Tar Springs, Mis	2,080		1,550	x	x	153	2	1	0		36	0.24	S	13	AF		
	Hardinsburg, Mis	2,135		230	x	x	17	0	0	0		34	x	S	10	AF		
	Cypress, Mis	2,390		1,620	x	x	153	3	2	0		35	0.23	S	14	AF		
	Aux Vases, Mis	2,715		270	x	x	27	3	0	0		38	x	S	8	AF		
	Ohara, Mis	2,795		20	x	x	1	0	0	0		x	x	L	5	AF		
	Spar Mtn, Mis	2,790		20	x	x	7	0	0	0		x	x	L	7	AF		
	McClosky, Mis	2,800		160	x	x	7	0	0	0		38	x	L	8	AF		
	St. Louis, Mis	2,960	1957	20	x	x	1	0	0	0		x	x	L	10	AF		
	2 or more pays						52	2	0	0								
•Inman W C; Gallatin; 7-8S; 9-10E			1940	3,580	175	6,310	315	2	2	238						T	Mis	3,094
	Pennsylvanian	925		40	x	x	4	0	0	0		x	x	S	8	NL		
	Pennsylvanian	1,630		30	x	x	3	0	0	0		x	x	S	5	NL		
	Biehl, Pen	1,750		70	x	x	7	0	0	0		x	x	S	12	NL		
	Palestine, Mis	1,765		40	x	x	4	0	0	0		31	x	S	13	NL		
	Waltersburg, Mis	2,080		100	x	x	8	0	0	0		x	x	S	10	TL		
	Tar Springs, Mis	2,140		900	x	x	85	0	1	0		37	x	S	8	TL		
	Hardinsburg, Mis	2,300		220	x	x	17	0	0	0		x	x	S	10	TL		
	Cypress, Mis	2,475		1,540	x	x	153	2	1	0		37	x	S	10	T		
	Sample, Mis	2,610		10	x	x	1	0	0	0		x	x	S	30	T		
	Renault, Mis	2,775		30	x	x	3	0	0	0		x	x	L	7	T		
	Aux Vases, Mis	2,790		690	x	x	64	0	1	0		x	x	S	15	TL		
	Ohara, Mis	2,815		120	x	x	6	0	0	0		x	x	L	12	TC		
	Spar Mtn, Mis	2,815		60	x	x	4	0	0	0		x	x	L	8	TC		
	McClosky, Mis	2,940		280	x	x	14	0	0	0		36	0.19	L	6	TC		
	2 or more pays						58	0	1	0								
Iola Cen; Clay; 5N; 5E	Benoist, Mis	2,420	1954	10	0	1	1	0	0	0		x	x	S	5	X	Mis	2,723
					Abd 1957													
•Iola C; Clay, Effingham; 5-6N; 5-6E			1939	3,500	279	12,571	278	1	8	256						A	Dev	4,227
	Tar Springs, Mis	1,890		10	x	x	1	0	0	0		x	x	S	9	AL		
	Cypress, Mis	2,125		490	x	x	49	0	2	0		36	x	S	15	A		
	Bethel, Mis	2,255		50	x	x	5	0	2	0		x	x	S	10	AL		
	Benoist, Mis	2,290		920	x	x	80	1	1	0		36	0.14	S	12	A		
	Renault, Mis	2,320		10	x	x	1	0	0	0		x	x	L	x	AC		
	Aux Vases, Mis	2,325		1,760	x	x	176	0	7	0		35	0.25	S	10	A		
	Spar Mtn, Mis	2,400		1,230	x	x	62	0	0	0		37	x	LS	7	A		
	Ohara, Mis	2,410	1963	20	x	x	1	0	0	0		x	x	L	6	A		
	McClosky, Mis	2,425		920	x	x	46	1	0	0		38	x	OL	10	A		
	2 or more pays						73	1	2	0								
Iola S; Clay; 4N; 5E			1947	250	9	276	18	2	0	13						A	Dev	4,325
	Benoist, Mis	2,490		130	x	x	10	1	0	0		37	x	S	10	AL		
	Spar Mtn, Mis	2,590		120	x	x	6	1	0	0		x	x	L	6	AC		
	McClosky, Mis	2,650		60	x	x	3	0	0	0		37	x	L	3	AC		
	2 or more pays						1	0	0	0								
Iola W; Clay; 5N; 5E	McClosky, Mis	2,495	1945	20	0	0.5	1	0	0	0		x	x	L	11	MC	Mis	2,613
					Abd 1945													

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year				
•Irvington; Washington; 1S; 1W	Beech Creek, Mis	1,525	1940	1,270	138	7,604	137	1	2	92	x x	L 3 AC	Ord 4,440
	Cypress, Mis	1,380		320	x	x	32	0	0		38 x	S 12 A	
	Benoist, Mis	1,535		870	x	x	84	1	2		38 0.16	S 12 A	
	Clear Creek, Dev	3,090		420	x	x	17	0	0		39 0.27	L 12 A	
	Trenton, Ord	4,275	1956	120	x	x	6	0	0		39 x	L 90 A	
	2 or more pays						3	0	0				
•Irvington E; Jefferson; 1S; 1E	Pennsylvanian	1,030	1951	290	45	694	27	0	0	26	x x	S 15 X	Mis 2,222
	Cypress, Mis	1,750	1955	60	x	x	7	0	0		x x	S 15 X	
	Benoist, Mis	1,950	1955	200	x	x	18	0	0		x x	S x x	
	2 or more pays						3	0	0				
Irvington N; Washington; 1N, 1S; 1W	Cypress, Mis	1,340	1953	260	52	1,011	26	0	0	26	x x	S 16 AL	Ord 4,334
	Benoist, Mis	1,470		40	x	x	4	0	0		x x	S 6 AL	
				220	x	x	22	0	0				
Irvington W; Washington; 1S; 1W	Cypress, Mis	1,460	1963	30	1	2	3	0	0	3	x x	S 20	Mis 1,909
•Iuka; Marion; 2N; 4E	Aux Vases, Mis	2,528	1947	880	29	889	45	1	1	27	x x	S 11 M	Mis 2,911
	Ohara, Mis	2,650	1960	30	x	x	3	0	0		x x	L 5 MC	
	Spar Mtn, Mis	2,660		120	x	x	6	0	0		x x	L 15 MC	
	McClosky, Mis	2,750		120	x	x	6	1	1		x x	L 10 MC	
	St. Louis, Mis	2,775		680	x	x	27	0	1		x x	L 10 MC	
	2 or more pays			300	x	x	8	0	0		x x	L 5 MC	
							15	0	0				
Iuka W; Marion; 2N; 3-4E	McClosky, Mis	2,700	1955	100	4	20	4	1	0	2	x x	L 5 X	Mis 2,801
Jacksonville Cas <sup>†</sup> ; Morgan; 15N; 9W	Cas, Pen, Mis	330	1910	60	0	2	8	0	0	0	x x	LS 5 ML	Ord 1,390
•Johnson N; Clark; 9-10N; 14W			1907	3,580	x	x	632	3	7	306		AM	Dev 2,260
	Kickapoo, Pen	315		210	x	x	34	0	x		x x	S x AM	
	Claypool, Pen	415		1,230	x	x	303	0	x		x x	S x AM	
	Casey, Pen	465		970	x	x	196	3	x		33 x	S x AM	
	Upper Partlow, Pen	535		290	x	x	51	0	x		x x	S x AM	
	McClosky, Mis	556		x	x	x	x	0	x		x x	OL 6 AM	
	Carper, Mis	1,325		110	x	x	11	0	x		x x	S x AM	
•Johnson S; Clark; 9N; 14W			1907	3,090	x	x	655	0	17	233		AM	
	Claypool, Pen	390		200	x	x	38	0	x		x x	S x AM	
	Casey, Pen	450		300	x	x	60	0	x		30 x	S x AM	
	Upper Partlow, Pen	490		1,710	x	x	432	0	x		29 x	S 48 AM	
	Lower Partlow, Pen	600		870	x	x	178	0	x		29 x	S x AM	
	Aux Vases, Mis	717	1961	x	x	x	1	0	x		x x	S 21 A	
•Johnsonville C; Wayne; 1N, 1S; 6-7E			1940	9,240	1,426	42,141	437	3	4	251		A	Trn 6,460
	Bethel, Mis	2,950		30	x	x	3	0	0		x x	S 12 AL	
	Aux Vases, Mis	3,020		2,630	x	x	138	5	2		39 0.14	S 20 AL	
	Ohara, Mis	3,120		600	x	x	28	0	0		x x	OL 10 AC	
	Spar Mtn, Mis	3,150		140	x	x	8	0	1		38 x	OL 8 AC	
	McClosky, Mis	3,170		8,460	x	x	320	0	2		38 0.17	OL 15 AC	



TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil		Pay zone	Deepest test	
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964	Pro-ducting end of year	Sul-fur Gr. API (%)				
Keenville E; Wayne; 1S; 5E	McClosky, Mis	3,140	1951	60	4	75	3	0	0	2	x	x	L 10 X	Mis	3,220
Kell; Jefferson; 1S; 3E	McClosky, Mis	2,625	1942	120	0	14	5	0	0	0	39	0.26	L 6 A	Mis	2,720
					Abd 1946; rev 1958; abd 1962										
Kell W; Marion; 1N; 2E	McClosky, Mis	2,354	1962	20	0	1	1	0	1	0	x	x	OL 6 X	Mis	2,443
					Abd 1964										
Kellerville; Adams, Brown; 1-2S; 5W	Silurian	637	1959	900	10	176	46	2	1	35	35	x	D 7 AC	St.P 1,075	
•Kenner; Clay; 3N; 5-6E	Tar Springs, Mis	2,200	1942	1,150	71	2,094	103	0	3	60	x	x	S 7 AL	A	Dev 4,624
	Benoist, Mis	2,690		720	x	x	55	0	2		38	0.22	S 10 A		
	Renault, Mis	2,761	1958	150	x	x	15	0	0		x	x	S 9 A		
	Aux Vases, Mis	2,835		480	x	x	47	0	2		x	x	S 9 AL		
	Spar Mtn, Mis	2,875		60	x	x	3	0	0		x	x	LS 5 AC		
	McClosky, Mis	2,930		60	x	x	4	1	0		x	x	L 7 AC		
	St. Louis, Mis	2,978	1964	20	x	x	1	1	0		x	x	L 4		
	Carper, Mis	4,221	1959	10	x	x	1	0	1		x	x	S 10 A		
	Devonian	4,424	1959	40	x	x	1	0	0		x	x	L 55 A		
	2 or more pays						11	0	1						
•Kenner N; Clay; 3N; 6E	Benoist, Mis	2,755	1947	340	3	877	36	0	2	2			A	Mis	3,076
	McClosky, Mis	2,970		320	x	x	31	0	2		36	x	S 8 A		
Kenner S; Clay; 2N; 5E	McClosky, Mis	2,870	1950	20	0	3	1	0	0	0	37	x	L 10 AC	Mis	3,000
					Abd 1952										
•Kenner W; Clay; 3N; 5E	Cypress, Mis	2,600	1947	360	24	2,018	35	1	2	16			A	Dev	4,800
	Benoist, Mis	2,705		300	x	x	27	0	1		36	x	S 26 A		
	Renault, Mis	2,802	1960	210	x	x	16	0	1		38	x	S 9 A		
	Aux Vases, Mis	2,837	1960	80	x	x	1	0	0		x	x	S 10 A		
	McClosky, Mis	2,870		40	x	x	8	1	0		x	x	S 24 A		
	2 or more pays						2	0	0		38	x	L 4 A		
							18	1	0						
Keyesport; Clinton; 3N; 2W	Benoist, Mis	1,180	1949	170	7	155	20	2	0	15	x	x	S 8 AL	Mis	1,358
Kincaid C; Christian; 13-14N; 3W	Hibbard, Dev	1,800	1955	1,670	91	4,473	148	1	5	143			MU	Sil	1,971
	Silurian	1,874	1959	1,660	x	x	147	1	5		x	x	DS 19 MU		
				10	x	x	1	0	0		x	x	D 7 X		
•King; Jefferson; 3-4S; 3E	Renault, Mis	2,718	1942	1,250	122	3,189	111	5	2	65			A	Dev	4,775
	Aux Vases, Mis	2,725	1942	10	x	x	1	0	0		x	x	S x A		
	Ohara, Mis	2,765		1,140	x	x	103	5	2		39	0.17	S 15 AL		
	Spar Mtn, Mis	2,815		220	x	x	11	3	0		x	x	L 10 AC		
	McClosky, Mis	2,840		140	x	x	7	0	0		40	0.16	LS 10 AC		
	2 or more pays			120	x	x	4	0	0		x	x	L 5 AC		
							13	3	0						
Kimnudy; Marion; 4N; 2-3E	Benoist, Mis	1,915	1950	80	9	51	7	0	0	4			A	Dev	3,650
	Salem, Mis	2,430		20	x	x	2	0	0		34	x	S 3 A		
	Carper, Mis	3,384	1962	40	x	x	1	0	0		x	x	L 7 A		
							4	0	0	4	x	x	S 17 X		



Kimmundy N; Marion; 4N; 3E	Benoist, Mis	2,040	1953	10	Abd 1954	0	0.5	1	0	0	0	0	x	x	S	6	X	Mis	2,301		
LaClede; Fayette; 5N; 4E	Benoist, Mis	2,335	1943	40	0.8	25	5	0	0	0	0	2	36	0.18	S	15	A	Mis	2,608		
Lakewood; Shelby; 10N; 2-3E	Benoist, Mis	1,690	1941	130	2	266	12	0	0	0	0	3	38	x	S	7	AL	Sil	3,127		
	Aux Vases, Mis	1,720		80	x	x	7	0	0	0	0		32	0.23	S	8	AL				
				50	x	x	5	0	0	0	0										
•Lancaster; Wabash, Lawrence; 1-2N; 13W	Tar Springs, Mis	2,050	1940	1,470	145	3,207	110	3	2	2	59						A	Dev	4,555		
	Bethel, Mis	2,540	1959	10	x	x	1	0	0	0			x	x	S	3	A				
	Ohara, Mis	2,670		920	x	x	75	1	2	2			39	x	S	14	AL				
	Spar Mtn, Mis	2,649	1964	40	x	x	2	0	0	0			x	x	L	10	AC				
	McClosky, Mis	2,690		20	x	x	1	1	0	0					L	6					
	2 or more pays			520	x	x	32	1	0	0			40	0.28	L	7	AC				
							1	0	0	0											
Lancaster Cen; Wabash; 1N; 13W	Ohara, Mis	2,750	1946	300	0.2	376	14	0	0	0	2						M	Mis	2,888		
	Spar Mtn, Mis	2,810		100	x	x	4	0	0	0			x	x	L	7	MC				
	McClosky, Mis	2,815		260	x	x	10	0	0	0			x	x	L	7	MC				
	2 or more pays			40	x	x	2	0	0	0			x	x	L	8	MC				
							4	0	0	0											
Lancaster E; Wabash; 2N; 13W	Biehl, Pen	1,745	1944	60	3	54	5	0	0	0	4						M	Mis	2,750		
	Spar Mtn, Mis	2,660		40	3	34	4	0	0	0			x	x	S	10	ML				
				20	0	20	1	0	0	0			x	x	L	6	MC				
•Lancaster S; Wabash; 1N; 13W	Bethel, Mis	2,520	1946	170	13	349	19	2	0	0	17						M	Mis	2,817		
	Ohara, Mis	2,670		130	13	333	17	2	0	0			32	x	S	6	ML				
	McClosky, Mis	2,720		20	0	0.5	1	0	0	0			x	x	L	6	MC				
					0	16	1	0	0	0			x	x	L	12	MC				
Langewisch-Kuester; Marion; 1N; 1E	Unnamed, Pen	795	1910	150	0.1	x	15	0	1	1	x						N	Dev	3,509		
	Cypress, Mis	1,600	1951	20	x	x	2	0	0	0			x	x	S	x	N				
			1910	130	x	x	13	0	1	1			x	x	S	x	N				
•Lawrence; Lawrence, Crawford; 2-5N; 11-13W			1906	43,190	x	x	6,454	116	114	2,886							A	St. P	5,190		
					See Lawrence County Division for Production																
	Trivoli, Pen	290		x	x	x	11	0	x	x			x	x	S	x	A				
	Cuba, Pen	450		x	x	x	2	1	x	x			x	x	S	x	A				
	Bridgeport, Pen	800		x	x	x	1,292	4	x	x			33	x	S	40	A				
	Pennsylvanian	950		x	x	x	23	2	x	x			x	x	S	15	A				
	Buchanan, Pen	1,250		x	x	x	526	3	x	x			33	x	S	15	A				
	Tar Springs, Mis	1,410		x	x	x	2	0	x	x			x	x	S	10	A				
	Hardinsburg, Mis	1,570		x	x	x	2	0	x	x			33	x	S	10	A				
	Jackson ("Gas"), Mis	1,370		x	x	x	288	16	x	x			33	x	S	15	A				
	Cyp (Kirkwood), Mis	1,400		x	x	x	4,254	78	x	x			33	x	S	30	A				
	Sample, Mis	1,600		x	x	x	115	13	x	x			x	x	S	8	A				
	Beth (Tracey), Mis	1,650		x	x	x	950	10	x	x			38	x	S	20	A				
	Benoist, Mis	1,695		x	x	x	42	14	x	x			x	x	S	7	A				
	Aux Vases, Mis	1,775		x	x	x	39	3	x	x			x	x	S	8	A				
	Ohara, Mis	1,750		x	x	x	12	2	x	x			x	x	L	8	A				
	Spar Mtn, Mis	1,860		x	x	x	47	7	x	x			33	x	LS	4	A				
	McClosky, Mis	1,860		x	x	x	1,093	13	x	x			33	x	L	10	A				
	St. Louis, Mis	1,660		x	x	x	5	0	x	x			x	x	L	10	A				
	Salem, Mis	1,955		x	x	x	1	0	x	x			x	x	L	2	A				
	2 or more pays						255	48	x	x											
Lawrence County Division; Lawrence, Crawford			43,930	6,945	315,854	6,541	117	114	2,931								St. P	5,190			
				Totals for Lawrence and St. Francisville Pools																	

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year			
•Lawrence W; Lawrence; 3N; 13W	Paint Creek, Mis	1,978	1952	490	5	441	46	1	0	41	x	x	Mis 2,324
	Bethel, Mis	2,050	1962	80	x	x	8	0	0		x	S 13 X	
	Aux Vases, Mis	2,110		370	x	x	32	1	0		x	S 15 X	
	Spar Mtn, Mis	2,193	1963	10	x	x	1	0	0		x	S 8 X	
	McClosky, Mis	2,225		20	x	x	1	0	0		x	L 2	
	2 or more pays			40	x	x	2	0	0		x	L 11 X	
							2	0	0				
Lexington; Wabash; 1S; 14W	Cypress, Mis	2,585	1947	200	2	398	11	0	0	3	x	S 10 AL	Mis 3,031
	McClosky, Mis	2,970		10	0	14	1	0	0		x	L 8 AC	
				200	2	384	10	0	0		x		
Lexington N; Wabash; 1S; 14W	Ste. G, Mis	2,915	1951	40	0	6	2	0	0	0	x	L 4 MC	Mis 3,045
					Abd 1958								
•Lillyville; Cumberland, Effingham; 8-9N; 6-7E	McClosky, Mis	2,425	1946	160	10	420	8	0	0	7	36	L 10 A	Dev 4,000
Lis; Jasper; 7N; 9E	Spar Mtn, Mis	3,022	1964	10	0.3	0.3	1	1	0	1		S 5	Mis 3,050
Litchfield; Montgomery; 8-9N; 5W	Unnamed, Pen	660	1889	100	x	x	18	0	0	0	23	S x D	St. P 3,000
					Abd 1904; rev 1942								
•Livingston; Madison; 6N; 6W	Pennsylvanian	535	1948	450	21	642	58	0	2	38	36	S 15 ML	Ord 2,378
•Livingston S <sup>†</sup> ; Madison; 5-6N; 6W	Pennsylvanian	530	1950	540	21	279	62	1	5	45	35	S 7 ML	Mis 845
Locust Grove; Wayne; 1N; 9E	Aux Vases, Mis	3,215	1951	170	7	203	12	0	0	6		x	Mis 3,428
	Ohara, Mis	3,240		80	x	x	7	0	0		x	S 10 X	
	McClosky, Mis	3,280		40	x	x	4	0	0		x	L 4 X	
	2 or more pays			20	x	x	1	0	0		x	L 6 X	
							1	0	0				
Locust Grove S; Wayne; 1S; 9E	Ohara, Mis	3,248	1953	160	0.9	106	8	0	3	1	x	X	Mis 3,410
	Spar Mtn, Mis	3,300	1953	40	x	x	2	0	1		x	L 6 X	
	McClosky, Mis	3,286	1958	60	x	x	3	0	0		x	L 10 X	
	2 or more pays		1958	80	x	x	4	0	2		x	L 4 X	
							1	0	0				
Long Branch; Saline, Hamilton; 7S; 6E	Palestine, Mis	2,070	1950	120	13	292	12	0	0	6		S 8 AL	Mis 3,389
	Cypress, Mis	2,745		20	x	x	2	0	0		x	S 13 AL	
	Aux Vases, Mis	3,095		60	x	x	6	0	0		x	S 9 AL	
	McClosky, Mis	3,220		40	x	x	2	0	0		x	L 5 AC	
	2 or more pays						1	0	0				
Long Branch S; Saline; 8S; 6E	Cypress, Mis	2,660	1955	10	0	9	1	0	0	1	x	S 8 X	Mis 3,210
•Louden <sup>†</sup> ; Fayette, Effingham; 6-9N; 2-4E	Cypress, Mis	1,500	1937	24,590	12,237	303,751	2,283	23	34	1,483	36	S 30 A	Pc 8,616
	Bethel, Mis	1,540		23,720	x	x	1,539	15	28		38	S 15 A	
	Benoist, Mis	1,550		4,350	x	x	335	11	9		39	S 10 A	
	Aux Vases, Mis	1,600		9,310	x	x	701	16	1		37	S 6 AL	
	McClosky, Mis	1,785	1955	130	x	x	9	1	0		x	L 4 AC	
	Carper, Mis	2,830		20	x	x	1	0	0		x	S 9 AL	

Louden (cont.)	Geneva, Dev Trenton, Ord 2 or more pays	3,000 3,905	1955	2,820 40	x x	x x	86 2 313	0 0 11	1 0 6	29 x x	0.48 x x	D 15 A L 12 A
Louisville N; Clay; 4N; 6E	Aux Vases, Mis Spar Mtn, Mis	2,755 2,812	1953 1953 1961	100 20 80	8 x x	44 x x	6 2 4	0 0 0	0 0 0	4 x x	Mis 2,977	
Louisville S; Clay; 3N; 6E	Aux Vases, Mis Ohara, Mis	2,823 2,893	1960 1960 1960	30 10 20	0 0 0	0 0 0	2 1 1	0 0 0	0 0 0	1 x x x x	Mis 3,048	
Lynchburg; Jefferson; 3S; 4E	McClosky, Mis	3,045	1951	60	6	278	3	0	0	2	Mis 3,579	
McKinley; Washington; 3S; 4W	Benoist, Mis Silurian	1,050 2,240	1940	290 150 200	8 x x	731 x x	30 17 12	0 0 0	0 0 0	16 44 43	Ord 3,983	
Macedonia; Franklin; 5S; 4E	Harrodsburg, Mis	4,097	1961	20	0.7	6	1	0	0	1	Dev 5,249	
Main C <sup>†</sup> ; Crawford, Lawrence, Jasper; 5-8N; 10-14W	Cuba, Pen Unnamed, Pen Robinson, Pen Pennsylvanian Cypress, Mis Paint Creek, Mis Bethel, Mis Aux Vases, Mis Spar Mtn, Mis McCl(Oblong), Mis Salem, Mis Devonian 2 or more pays	510 750 950 1,250 1,480 1,280 1,400 1,430 1,515 1,400 1,815 2,795	1906	86,330 x x x x x x x x x x x	3,561 x x x x x x x x x x x	201,530 x x x x x x x x x x x	11,104 74 4 9,686 28 41 103 89 1 115 14 3 12	73 0 0 69 0 1 0 2 0 1 1 0 0	158 x x x x x x x x x x x 0	4,318 32 35 x x x x x x x x x x	ML x ML S 5 ML S 25 ML S x ML S 15 ML S 30 ML S 18 ML S 15 ML S 6 MC L x MC L 5 MC L 11 MC	
Maple Grove C; Edwards, Wayne; 1-2N; 9-10E	Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	3,145 3,230 3,250 3,260	1943	2,270 310 80 20 2,040	66 x x x x	4,265 x x x x	105 25 4 1 81 5	0 0 0 0 0	7 6 0 0 1 0	35 37 x x 37	Mis 3,385	
Maple Grove S; Edwards; 1N; 10E	McClosky, Mis	3,250	1945	20	0	9	1	0	0	0	Mis 3,358	
Marcoc; Jefferson; 3S; 2E	McClosky, Mis	2,745	1938	40	0	13	2	0	0	0	Mis 3,066	
Marine; Madison; 4N; 6W	Dev-Sil	1,700	1943	3,100	146	11,205	146	0	0	133	Ord 2,619	
Marion; Williamson; 9S; 3E	Aux Vases, Mis	2,385	1950	10	0	0.5	1	0	0	0	Mis 2,560	
Marion E; Williamson; 9S; 3E	Bethel, Mis	2,295	1959	20	0	1	2	0	0	1	Mis 2,642	
Marissa W <sup>†</sup> ; St. Clair; 3S; 7W	Cypress, Mis	215	1962	20	0	0	2	1	0	2	Mis 308	
Markham City; Jefferson; 2-3S; 4E	Ste. C, Mis	3,070	1942	760	14	1,415	19	0	0	4	Mis 3,215	
Markham City N; Jefferson, Wayne; 2S; 4-5E	Aux Vases, Mis McClosky, Mis 2 or more pays	2,950 3,075	1943	540 110 520	51 x x	1,218 x x	21 7 15	1 1 0	0 0 0	12 x 38	Mis 3,169	

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year			
•Markham City W; Jefferson; 2-3S; 4E	Aux Vases, Mis McClosky, Mis 2 or more pays	2,905 3,035	1945	680 320 420	21 x x	2,224 x x	39 19 23	1 0 1	10 5 7	10	38 x 38 x	A S 15 L 7 AC	Mis 3,182
•Martinsville; Clark; 9-10N; 13-14W	Shallow, Pen Casey, Pen Martinsville, Mis Carper, Mis Devonian Trenton, Ord	255 500 480 1,340 1,550 2,700	1907	1,920	x x x x x x	x x x x x x	342 10 93 24 82 44	4 0 1 0 3 0	1 x x x x x	181	x x x x x x 34 x x x 40 x	D S x D S x D L x D S 40 D L x D L x D	St.P 3,411
•Mason N; Effingham; 6N; 5E	Benoist, Mis Aux Vases, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,290 2,355 2,390 2,475	1951	180 100 10 40	12 x x x	331 x x x	13 8 1 4	0 0 0 0	0 0 0 0	8	x x x x x x x	A S 13 AL S 5 AL L 18 AC L 5 AC	Mis 2,553
Massilon; Wayne, Edwards; 1S; 9-10E	Ohara, Mis	3,255	1946	120	0	91	3	0	0	0	37 x	L 6 MC	Mis 3,472
Massilon S; Edwards; 1S; 10E	Ohara, Mis	3,315	1947	20	0	0.5	1	0	0	0	x x	L 9 MC	Mis 3,391
•Mattoon; Coles; 11-12N; 7-8E	Cypress, Mis Aux Vases, Mis Spar Mtn, Mis McClosky, Mis Carper, Mis 2 or more pays	1,750 1,900 240 1,950 2,010 2,950	1939	5,940 2,310 4,150 20 250	865 x x x x	15,734 x x x x	505 224 22 366 3 17	31 17 4 16 0 6	9 3 1 6 0 1	310	38 0.16 38 x 38 0.21 38 x x x	A S 13 A S 15 AL S 12 A L 5 AC S 10 A	St.P 4,915
Mattoon N; Coles; 13N; 7E	Spar Mtn, Mis	1,902	1960	230	31	249	12	1	0	10	40 x	S 12 A	Mis 1,967
Mattoon S; Cumberland; 11N; 7E	Carper, Mis	3,035	1962	30	2	4	3	0	1	2	x x	S 10	Mis 3,337
Maunie E; White; 6S; 11E	Tar Springs, Mis Aux Vases, Mis	2,280 2,870	1962 1951	10 60	x x	x x	1 5	0 0	0 0	1	x x x x	S 8 X S 20 AF	Mis 3,088
•Maunie N C; White; 5-6S; 10-11E, 14W	Pennsylvanian Waltersburg, Mis Tar Springs, Mis Hardinsburg, Mis Sample, Mis Bethel, Mis Renault, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis	1,320 2,305 2,350 2,565 2,830 2,820 2,935 2,930 2,995 3,025	1941	2,040 10 10 110 40 400 10 60	101 x x x x x x x x	3,899 x x x x x x x x	176 1 10 10 1 2 30 1 88 8	0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	123	x x x x x x x x x x 37 x x x 35 x x x	A S 20 AL S 12 AL S 10 AL S 10 A S 13 AL S 13 AL L 2 AC S 13 AL L 4 AC	Mis 3,260



Maunie N C (cont.)	McClosky, Mis 2 or more pays	3,035	60	x	x	23 21	0 0	0 0	35	x	L	10	AC					
•Maunie South C; White; 6S; 10-11E	Bridgeport, Pen	1,400	1941	1,710	121	6,451	162	1	4	70	37	x	S	7	AL	A	Mis	3,160
	Biehl, Pen	1,049	1959	70	x	x	7	0	0	0	0	x	x	S	x	AL		
	Degonia, Mis	1,900		30	x	x	3	0	0	0	0	x	x	S	10	AL		
	Palestine, Mis	2,010		110	x	x	11	0	0	0	0	x	x	S	17	AL		
	Waltersburg, Mis	2,210		570	x	x	54	0	0	0	38	x	x	S	19	AL		
	Tar Springs, Mis	2,270		20	x	x	2	0	0	0	0	x	x	S	16	AF		
	Cypress, Mis	2,590		580	x	x	50	0	1	0	38	x	x	S	10	AL		
	Bethel, Mis	2,735		290	x	x	27	0	3	0	39	x	x	S	x	AL		
	Aux Vases, Mis	2,845	1941	140	x	x	12	0	0	0	0	x	x	S	12	AL		
	Spar Mtn, Mis	2,900		20	x	x	1	0	0	0	0	x	x	L	8	AC		
	McClosky, Mis	2,920		80	x	x	4	1	0	0	0	x	x	L	6	AC		
	2 or more pays						16	0	0									
Mayberry; Wayne; 2-3S; 6E	McClosky, Mis	3,350	1941	240	3	344	7	0	0	2	39	0.16	L	8	AC	Dev	5,377	
Mayberry N; Wayne; 2S; 6E	McClosky, Mis	3,330	1948	20	0	1	1	0	0	0	x	x	L	2	X	Mis	3,463	
	Abd 1950																	
•Melrose; Clark; 9N; 13W	Isabel, Pen	840	1953	110	x	x	11	0	0	2	x	x	S	10	X	Pen	878	
Melrose S; Clark; 9N; 13W	Isabel, Pen	865	1953	20	0	0	2	1	0	1	x	x	S	7	X	Pen	888	
	Abd 1959; rev 1964																	
Miletus; Marion; 4N; 4E	Benoist, Mis	2,140	1947	220	6	322	16	0	0	6	36	x	S	7	A	Dev	3,950	
	Aux Vases, Mis	2,200		100	x	x	8	0	0	0	36	x	S	7	A			
	McClosky, Mis	2,350		60	x	x	3	0	0	0	36	x	L	5	A			
2 or more pays							3	0	0									
•Mill Shoals; White, Hamilton, Wayne; 2-4S; 7-8E	Aux Vases, Mis	3,245	1939	2,960	355	9,520	243	2	4	137	40	0.14	S	11	A	A	Mis	5,455
	Ohara, Mis	3,320		2,580	x	x	194	1	4	0	x	x	OL	11	AC			
	Spar Mtn, Mis	3,345		180	x	x	9	0	0	0	x	x	LS	8	AC			
	McClosky, Mis	3,375		260	x	x	13	0	1	0	x	x	OL	5	AC			
	St. Louis, Mis	3,546	1960	20	x	x	1	0	0	0	x	x	L	10	AC			
	Salem, Mis	3,970	1961	40	x	x	2	1	0	0	x	x	L	4	A			
	Harrodsburg, Mis	4,110	1959	20	x	x	1	0	0	0	x	x	L	10	A			
	2 or more pays						16	0	1									
	Ohara, Mis	2,925	1948	20	0	2	1	0	0	0	0	x	x	L	5	MC	Mis	3,010
		Abd 1952																
	Ohara, Mis	2,925	1953	40	0	5	2	0	0	0	0	x	x	L	5	MC	Mis	3,003
		Abd 1956																
Mitchellsville; Saline; 10S; 6E	Degonia, Mis	1,330	1955	20	0.9	17	2	0	1	1	x	x	S	6	X	Mis	2,452	
	Waltersburg, Mis	1,505	1955	10	0	x	1	0	1	0	x	x	S	9	X			
	0.9	17	1	0	0													
•Mode; Shelby; 10N; 4E	Bethel, Mis	1,682	1961	180	36	190	18	0	1	13	x	x	S	12	X	Dev	3,265	
	Benoist, Mis	1,742	1961	80	x	x	8	0	0	0	x	x	S	8	X			
	Aux Vases, Mis	1,772	1961	150	x	x	13	0	1	0	x	x	S	8	X			
	2 or more pays			20	x	x	2	0	0	0	x	x	S	8	X			
	7	0	0															
Mt. Auburn C; Christian; 15N; 1-2W	Silurian	1,890	1943	7,780	362	5,350	391	17	20	244	37	0.28	L	15	MU	Trn	2,577	
•Mt. Carmel <sup>*</sup> ; Wabash; 1N, 1S; 12W	Bridgeport, Pen	1,370	1940	4,720	306	13,612	469	5	22	226	34	x	S	20	AL	Dev	4,237	
	Biehl, Pen	1,470		60	x	x	5	0	1	0	x	x	S	20	AL			
	Jordan, Pen	1,520		720	x	x	48	0	3	37	0.28	x	S	15	AL			
				50	x	x	5	0	0	0	x	x	S	15	AL			

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (• Secondary recovery — see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil		Pay zone	Deepest test zone and depth (ft)
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Sul- fur API (%)	Kind of rock, av. thickness in feet, structure	
Mt. Carmel (cont.)	Palestine, Mis	1,580		50	x	x	4	0	0		x	S 10 AL	x
	Waltersburg, Mis	1,690		10	x	x	1	0	0		36	S 10 AL	36
	Tar Springs, Mis	1,790		330	x	x	27	1	3		36	S 13 AL	36
	Jackson, Mis	2,020		10	x	x	1	0	0		x	S 25 AL	x
	Cypress, Mis	2,025		3,570	x	x	308	5	12		36	S 15 AL	36
	Sample, Mis	2,095		40	x	x	3	0	0		x	S 7 AL	x
	Bethel, Mis	2,110		60	x	x	6	0	0		36	S 16 AL	x
	Ohara, Mis	2,320		280	x	x	15	0	1		36	OL 5 AC	x
	Spar Mtn, Mis	2,350		240	x	x	12	0	0		37	S 5 AC	x
	McClosky, Mis	2,360		1,300	x	x	63	0	5		37	OL 6 AC	x
	2 or more pays						49	0	3				
Mt. Erie N; Wayne; 1N; 9E	Aux Vases, Mis	3,110	1944	200	0	385	13	0	0	1		S 8 ML	Mis 3,366
	Ohara, Mis	3,170		60	x	x	5	0	0		x	L 6 MC	
	McClosky, Mis	3,240		100	x	x	5	0	0		37	L 5 MC	
Mt. Olive <sup>†</sup> ; Montgomery; 8N; 5W	Pottsville, Pen	605	1942	60	0	x	6	0	0	0	33	S 6 A	Sil 1,878
Mt. Vernon; Jefferson; 3S; 3E	Aux Vases, Mis	2,665	1943	290	9	399	13	1	0	5	x	S 8 A	Mis 3,009
	Ohara, Mis	2,750		50	x	x	5	0	0		x	L 6 AC	
	McClosky, Mis	2,800		40	x	x	2	0	0		x	L 7 AC	
	2 or more pays			240	x	x	8	1	0	0	39		
Mt. Vernon N; Jefferson; 2S; 3E	McClosky, Mis	2,675	1956	40	3	51	2	0	0	2	x	L 6 X	Mis 2,751
	Pennsylvanian	370	1955	10	0	x	3	0	0	2	36	S 16 X	Pen 424
Nason; Jefferson; 3S; 2E	Ohara, Mis	2,758	1943	60	3	44	2	0	0	2		ML	Mis 3,925
	Spar Mtn, Mis	2,790	1943	20	x	x	1	0	0		x	L 4 X	
	Silurian	1,935	1958	300	12	119	15	0	0	12	x	S 12 ML	Mis 3,925
New Baden E; Clinton; 1N; 5W	Isabel, Pen	650	1942	70	0	10	8	2	0	5		L 15 R	Sil 2,200
	Pennsylvanian	1,165		20	Abd 1948; rev 1952; abd 1954; rev 1956	x	2	0	0		x	S 3 ML	
New Bellair; Crawford; 8N; 13W	Aux Vases, Mis	1,280		40	0	x	3	1	0		29	S 10 ML	
	Silurian	1,730	1954	420	35	117	23	5	3	13	39	L 11 MU	Sil 1,855
New City S; Christian; 14N; 4W	Silurian	2,008	1963	40	12	51	2	0	0	2	x	x	Sil 1,918
	Pennsylvanian	640	1957	20	0	3	2	0	0	0	x	S 7 X	Pen 705
• New Harmony C <sup>*</sup> ; White, Wabash, Edwards; 1N, 1-5S; 13-14W	Jamestown, Pen	720	1939	26,430	4,122	124,766	2,423	38	63	1,285		S 13 AL	Shak 7,682
	Mansfield, Pen	x		x	x	x	3	0	0		x	S x AL	
	Bridgeport, Pen	1,340		x	x	x	7	4	0		x	S 7 AL	
	Biehl, Pen	1,850		x	x	x	105	7	4		37	S 20 AL	
	Jordan, Pen	1,760		x	x	x	x	0	0		x	S x AL	

New Harmony C\* (cont.)

Degonia, Mis	1,925	x	x	x	10	0	0	38	x	S	10	AL
Clore, Mis	1,980	x	x	x	7	0	0	x	x	S	10	AL
Palestine, Mis	2,000	250	x	x	22	0	0	x	x	S	10	AL
Waltersburg, Mis	2,155	1,040	x	x	111	4	3	34	0.40	S	20	AL
Tar Springs, Mis	2,215	1,660	x	x	192	3	2	35	0.19	S	26	ALf
Hardinsburg, Mis	2,290	10	x	x	1	0	0	x	x	L	10	ALf
Cypress, Mis	2,570	8,720	x	x	1,019	9	31	35	x	S	20	ALf
Sample, Mis	2,660	x	x	x	59	0	1	x	x	S	20	ALf
Bethel, Mis	2,700	x	x	x	835	11	12	34	0.24	S	27	ALf
Renault, Mis	2,761	10	x	x	1	0	0	x	x	x	8	x
Aux Vases, Mis	2,800	5,960	x	x	598	12	12	34	0.19	S	15	ALf
Ohara, Mis	2,900	x	x	x	32	1	1	x	x	OL	6	AC
Spar Mtn, Mis	2,910	x	x	x	40	2	1	x	x	LS	10	AC
McClosky, Mis	2,925	x	x	x	246	0	5	35	0.33	OL	8	AC
Salem, Mis	3,364	20	x	x	1	0	0	x	x	L	16	AC
Harrodsburg, Mis	3,755	60	x	x	3	0	0	x	x	L	6	AC
2 or more pays					402	13	7					

New Harmony S (Ill)\*; White; 5S; 14W

1941	90	2	89	8	0	0	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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New Harmony S (Ind)\*; White; 5S; 14W

	1946	60	0	446	6	0	0	4		S	8	TF
Degonia, Mis	1,850	20	0	x	2	0	0	x	x	S	10	TF
Palestine, Mis	1,955	30	0	x	1	0	0	x	x	S	30	TF
Waltersburg, Mis	2,120	30	0	x	3	0	0	x	x	S		
2 or more pays					2	0	0					

New Haven C\*; White; 7S; 10-11E

Tar Springs, Mis	2,105	610	58	1,877	50	0	0	40		S	12	Af																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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New Hebron E; Crawford; 6N; 12W

Aux Vases, Mis	1,555	40	0	0.5	4	0	0	1	x	S	4	X
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New Memphis; Clinton; 1N; 1S; 5W

Silurian	1,980	760	76	1,891	36	0	0	36	x	L	x	R
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New Memphis E; Washington; 1S; 4W

Devonian	2,170	40	0.9	9	2	0	0	2	x	L	12	X
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New Memphis N; Clinton; 1N; 5W

Dev-Sil	2,050	80	2	33	4	0	0	4	x	L	15	X
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New Memphis S; Clinton, Washington; 1S; 5W

Silurian	2,000	40	0	1	2	0	0	0	27	L	25	X

Newton; Jasper; 6N; 9E

Ste. G, Mis	2,950	100	0	91	5	0	0	0	37	L	6	MC

Newton N; Jasper; 7N; 10E

McClosky, Mis	2,855	40	0	7	6	0	1	2	x	L	5	MC

Newton W; Jasper; 6-7N; 9E

Spar Mtn, Mis	2,912	660	39	201	33	0	2	23				
McClosky, Mis	3,000	180	x	x	10	0	2		x	L	5	X
2 or more pays		580	x	x	28	0	1		x	L	7	MC
					5	0	1					

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery - see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil		Pay zone	Deepest test zone and depth (ft)
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Gr. fur API (%)	Kind of rock, av. thickness, in feet, structure	
Noble W; Clay; 3N; 8E	McClosky, Mis	3,035	1951	20	0	9	1	0	0	0	x x x	L 8 X	Mis 3,622
					Abd 1959								
•Oakdale; Jefferson; 2S; 4E	Aux Vases, Mis	2,860	1956	280	56	552	19	3	0	14	x	X	Mis 3,767
	McClosky, Mis	2,985	1956	240	x	x	17	3	0		x x	S 35 X	
	2 or more pays			60	x	x	3	0	0		x x	L 5 X	
•Oakdale N; Jefferson; 2S; 4E	McClosky, Mis	2,932	1960	240	30	377	12	0	0	11	x x	OL 5 X	Mis 3,077
Oakley; Macon; 16N; 3E	Cedar Valley, Dev	2,285	1954	180	0	23	9	0	3	2	37 x	L 5 X	Dev 2,335
•Oak Point; Clark, Jasper; 8-9N; 14W	Isabel, Pen	560	1952	740	8	343	55	1	0	34	x x	M	Dev 2,691
	Aux Vases, Mis	1,185	1955	10	0	0	1	0	0		x x	S 10 ML	
	Carper, Mis	2,220		680	x	x	51	0	0		x x	S 17 X	
				50	x	x	3	1	0		x x	L x ML	
Oak Point W; Clark, Cumberland; 9N; 11E, 14W	Aux Vases, Mis	1,190	1955	90	0	14	8	0	1	5	x x	S 8 X	Mis 1,560
•Odin; Marion; 2N; 1-2E	Cypress, Mis	1,750	1945	290	11	1,784	31	0	0	23	38 x	A	Dev 3,597
	Benoist, Mis	1,912	1963	290	x	x	29	0	0		x x	S 13 AL	
	McClosky, Mis	2,085	1957	40	x	x	1	0	0		x x	S 3 X	
Okawville; Washington; 1S; 4W	Silurian	2,325	1951	80	2	57	4	0	0	3	x x	L 3 R	Sil 2,603
Okawville N; Washington; 1S; 4W	Silurian	2,235	1955	100	1	28	5	0	0	4	41 x	L x X	Sil 2,498
•Old Ripley; Bond; 5N; 4W	Pennsylvanian	600	1954	800	26	371	72	1	1	60	34 x	S 17 A	Dev 2,221
	Aux Vases, Mis	941	1964	790	x	x	71	0	1			S 19	
				10	x	x	1	1	0				
Old Ripley N; Bond; 5N; 4W	Hardin, Dev	1,991	1962	10	0.3	3	1	0	0	1	x x	S 1 X	Dev 2,040
•Olney C; Richland, Jasper; 4-5N; 10E	Aux Vases, Mis	2,918	1938	4,760	112	7,272	191	2	18	63	x x	A	Mis 3,594
	Ohara, Mis	3,005	1960	50	x	x	5	0	0			S A	
	Spar Mtn, Mis	3,050		x	x	x	15	0	2		37 0.19	L 6 A	
	McClosky, Mis	3,100		x	x	x	50	0	12		37 0.19	L 5 A	
	2 or more pays			x	x	x	125	2	4		37 0.19	L 6 A	
							6	0	0				
•Olney S; Richland; 3N; 10E	Ohara, Mis	3,142	1937	1,170	27	909	56	1	0	37	x x	M	Dev 4,910
	Spar Mtn, Mis	3,100	1962	20	x	x	1	0	0			L 4 X	
	McClosky, Mis	3,115		780	x	x	36	0	0		x x	L 4 MC	
	2 or more pays			740	x	x	35	1	0		x x	L 3 MC	
							18	0	0				
•Omaha <sup>†</sup> ; Gallatin; 7-8S; 8E	Jake Creek, Pen	385	1940	1,740	149	4,207	160	0	1	140	x x	D	Mis 3,408
	Pennsylvanian	580		210	x	x	15	0	0			S 20 D	
	Biehl, Pen	1,335		40	x	x	5	0	0		x x	S 10 D	
	Palestine, Mis	1,700		70	x	x	5	0	0		x x	S 10 D	
	Tar Springs, Mis	1,900		390	x	x	27	0	0		27 0.24	S 15 D	
	Hardinsburg, Mis	2,179	1961	110	x	x	9	0	0		x x	S 15 D	
				60	x	x	6	0	0		x x	S 18 D	



Omaha (cont.)

Cypress, Mis Paint Creek, Mis Bethel, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,402 2,450 2,570 2,730 2,734 2,722 2,800	1959 1961 1955 1955 1958 1958 1961	120 10 30 680 300 50 120	x x x x x x x	x x x x x x x	12 1 3 67 18 5 16	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1 0 0 0 0 0 0	x x x x x x x	S S S S L S L	12 10 14 20 14 8 x	D X D D D D D
Omaha E; Gallatin; 8S; 8E													
Cypress, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis	2,530 2,790 2,855 2,942 2,884	1946 1957 1960 1958	180 30 10 60 20 60	2 x 0 x x x	60 x 0 x x x	11 3 1 3 1 3	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	4 x x 37 x x	S S L L L	6 M 8 9 10	M M Mcf Mcf Mcf
•Omaha S; Gallatin, Saline; 8S; 7-8E													
Cypress, Mis Aux Vases, Mis Spar Mtn, Mis	2,535 2,870 2,865	1951 1955	90 60 10 20	0 0 0 0	24 18 0 5	7 5 1 1	0 0 0 0	1 1 0 0	1 1 0 0	1 x x x	S S L	15 11 1	N NL N NC
Omaha W; Saline; 7-8S; 7E													
Cypress, Mis Aux Vases, Mis McClosky, Mis 2 or more pays	2,600 2,800 2,910	1950	80 50 20	6 x x	183 x x	7 5 2 1	0 0 0 0	0 0 0 0	0 0 0 0	5 x x x	S S L	14 30 8	A AL AC
Omega; Marion; 3N; 4E													
Benoist, Mis McClosky, Mis	2,280 2,490	1946 1963 1946	90 10 80	8 5 3	15 rev 1963 7 8	5 1 4	2 0 2	1 0 1	1 0 1	2 x x	S L	3 10	X D
Opdyke; Jefferson; 3S; 4E													
Ohara, Mis McClosky, Mis 2 or more pays	3,016 3,074	1961 1962 1961	40 20 40	1 x x	6 x x	2 1 1	0 0 0	0 0 0	0 0 0	1 x x	L OL	8 20	X X
Orchardville; Wayne; 1N; 5E													
Sample, Mis Aux Vases, Mis Ohara, Mis McClosky, Mis	2,655 2,800 2,880 2,905	1950 1958	200 10 120 40 40	16 x x x x	199 x x x x	17 1 13 2 4	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	13 x x x x	S S L L	A x 16 3 5	A A AL AC AC
Orchardville N; Wayne; 1N; 5E													
Paint Creek, Mis	2,655	1956	10	0	14	1	0	1	0	0	S	6	X
•Oskaloosa; Clay; 3-4N; 5E													
Benoist, Mis Aux Vases, Mis McClosky, Mis 2 or more pays	2,595 2,643 2,755	1950 1958 1957	460 400 10 220	95 x x x	2,416 x x x	42 40 11 12 10	0 0 2 2 2	0 2 3 2 2	3 2 0 2 2	24 38 x x x	S S L	15 A 5 5	A A A A
Oskaloosa E; Clay; 3N; 5-6E													
Aux Vases, Mis McClosky, Mis	2,820 2,895	1947	40 20 20	0 Abd 1954 0	35 7 28	3 2 1	0 0 0	0 0 0	0 0 0	0 x x	S L	5 4	AL AC
Oskaloosa S; Clay; 3N; 5E													
McClosky, Mis	2,770	1951	80	0.7	32	4	0	0	0	2	L	4	AC
Pana; Christian; 11-12N; 1E													
Benoist, Mis	1,470	1951	60	4	85	5	0	0	0	4	S	8	X
Panama ; Bond, Montgomery; 7N; 3-4W													
Golconda, Mis Benoist, Mis	705 865	1940	60 40 20	0.4 x x	21 x x	6 4 2	0 0 0	0 0 0	0 0 0	2 31 28	A L S	12 12	A A A

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (• Secondary recovery - see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil		Pay zone	Deepest test zone and depth (ft.)
	Name and age	Depth (ft.)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Sul-fur API (%)		
Pankeyville; Saline; 9S; 6E			1956	30	0	6	2	0	0	1		X	Mis 2,742
	Cypress, Mis	2,250	1956	30	Abd 1957; rev 1961								
	Aux Vases, Mis	2,511	1961	10	0	x	2	0	0		x x	S x X	
Pankeyville E; Saline; 9S; 7E			1956	10	0	0	1	0	0		x x	S 22 X	
	Cypress, Mis	2,250		10	Abd 1957		1	0	0	0		X	Mis 2,604
	Paint Creek, Mis	2,360		10	0	0	1	0	0		x x	S x X	
	2 or more pays						1	0	0		x x	S 13 X	
•Parkersburg C; Richland, Edwards; 1-3N; 10-11E, 14W			1941	6,460	93	10,571	286	3	14	86		A	Dev 5,128
	Waltersburg, Mis	2,430		90	x	x	9	0	0		x x	S 10 A	
	Cypress, Mis	2,830		170	x	x	9	0	0		x x	S 12 A	
	Bethel, Mis	2,930		220	x	x	12	0	1		x x	S 12 A	
	Aux Vases, Mis	3,070		10	x	x	1	0	0		x x	S 20 A	
	Ohara, Mis	3,100		x	x	x	4	0	0		x x	L 10 A	
	Spar Mtn, Mis	3,150		x	x	x	45	2	2		37 0.34	L 10 A	
	McClosky, Mis	3,175		5,100	x	x	190	3	13		38 0.31	OL 10 A	
	2 or more pays						27	1	2				
Parkersburg S; Edwards; 1N; 14W			1948	90	2	72	9	0	0	6		X	Mis 3,187
	Pennsylvanian	1,400		60	x	x	6	0	0		x x	S 10 X	
	Bethel, Mis	2,815		30	x	x	3	0	0		x x	S 5 X	
Parkersburg W; Richland, Edwards; 2N; 10E			1943	420	0	235	18	1	0	1		A	Mis 3,331
	Ohara, Mis	3,220		40	Abd 1962; rev 1964								
	McClosky, Mis	3,260		380	0	x	17	1	0		x x	L 5 AC	
											37 x	L 6 AC	
Parnell; DeWitt; 21N; 4E			1963	140	2	4	14	12	0	14		S 12 X	Trn 1,971
	Sonora, Mis	671	1963	130	2	4	13	11	0		32 x	S 12 X	
	Devonian		1964	10	0	0	1	1	0		x x	S 12 X	
•Passport; Clay; 4-5N; 8E			1945	1,120	63	2,845	61	2	0	36		A	Mis 3,140
	Aux Vases, Mis	2,924	1964	20	x	x	2	2	0			S 6	
	Spar Mtn, Mis	3,005		40	x	x	2	0	0		x x	L 5 AC	
	McClosky, Mis	3,020		1,100	x	x	58	0	0		37 x	L 10 A	
	2 or more pays						1	0	0				
Passport N; Richland; 5N; 9E			1959	50	13	35	5	3	0	5		S 10 X	Mis 3,200
•Passport S; Richland, Clay; 4N; 8-9E			1948	160	5	167	11	1	3	2		A	Mis 3,692
	Tar Springs, Mis	2,368	1962	10	x	x	1	0	0		x x	S 9 X	
	Cypress, Mis	2,665		80	x	x	7	0	3		38 x	S 15 AL	
	Aux Vases, Mis	2,957	1960	10	x	x	1	0	0		x x	S 8 A	
	Spar Mtn, Mis	3,025		20	x	x	1	0	0		x x	L 6 AC	
	McClosky, Mis	3,030		40	x	x	2	1	0		38 x	L 8 AC	
	2 or more pays				x	x	1	0	0				
Passport W; Clay; 4N; 8E			1954	180	0.1	69	10	0	1	0		L 5 AC	Mis 3,130
	Ste. G, Mis	3,030			Abd 1964								
•Patoka; Marion, Clinton; 3-4N; 1E, 1W			1937	2,020	171	13,615	239	1	4	112		D	Ord 4,056
	Cypress, Mis	1,280		80	x	x	8	0	0		39 x	S 10 D	

Patoka (cont.)	Benoist, Mis Spar Mtn, Mis Geneva, Dev Trenton, Ord 2 or more pays	1,410 1,550 2,835 3,950 1956	1,130 570 60 740 1956	x x x x x	x x x x x	180 15 3 34 2	0 0 0 4 0	0 0 0 0 0	39 39 40 39 39	0.16 0.31 0.28 x x	S 27 S 9 D 10 L 25 D	D	Ord 4,178
Patoka E; Marion; 4N; 1E	Cypress, Mis Benoist, Mis McClosky, Mis Geneva, Dev 1941	1,340 1,465 1,635 2,950	600 500 60 80 40 660 500 140 20	67 x x x x 57 x x x	4,603 x x x x 858 x x x	64 54 5 3 2 62 47 14 1	0 0 0 0 0 11 11 0 0	0 0 0 0 0 4 3 0 0	48 36 36 x 35 49 x x x x	0.18 0.23 x x x x x x x	S 16 S 10 L 8 D 30 R	Mis 1,728	
Patoka S; Marion; 3N; 1E	Cypress, Mis Benoist, Mis Spar Mtn, Mis 1953 1953 1959 1959	1,350 1,461 1,624	660 500 140 20	57 x x x	858 x x x	62 47 14 1	11 11 0 0	4 3 0 0	49 11 x x	x x x x	S 10 S 15 S 5 A	Mis 1,728	
Patoka W; Fayette; 4N; 1W	Benoist, Mis 1950	1,380	200	4	304	19	0	0	14	32	x	S 6	Mis 1,735
Phillipstown C; White, Edwards; 3-5S; 10-11E, 14W	Anvil Rock, Pen Clark-Bridgeport, Pen 1939	795 1,350	6,720 10 x	613 x x	21,389 x x	539 1 14	10 0 1	23 0 0	324 36 36	x x	S 10 S 10 Af	A Dev 5,350	
	Pennsylvanian Buchanan, Pen Biehl, Pen Kinkaid, Mis Degonia, Mis Clore, Mis Palestine, Mis Waltersburg, Mis Tar Springs, Mis Cypress, Mis Paint Creek, Mis Bethel, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	1,450 1,550 1,875 1,954 1,975 2,010 2,050 2,280 2,295 2,720 2,780 2,810 2,880 3,010 2,960 3,000	x x x 10 540 120 60 70 990 560 80 1,040 810 540 630 1,230	x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x	11 24 59 1 53 14 0 5 83 44 7 108 68 28 34 64 86	0 0 6 0 0 1 0 1 0 0 13 1 3 2 1 2 2	0 2 2 0 0 1 0 0 2 1 0 2 3 4	36 36 x 36 35 34 x x x 35 36 x x 37 37 38 36	x x 0.22 x x x x x x x x x x 0.21 x	S 10 S 15 S 15 S 17 S 15 S 12 S 11 S 11 S 15 S 12 S 9 S 15 L 10 LS 10 L 6	Af Af Af Af Af Af Af Af Af Af Af Af Af	Mis 3,161
Phillipstown S; White; 5S; 10E	Tar Springs, Mis Aux Vases, Mis Spar Mtn, Mis McClosky, Mis 1951 1951 1951 1957	2,345 2,985 3,083 3,065	160 70 50 20 20	x x x x x	x x x x x	14 7 5 1 1	1 1 0 0 0	0 0 0 0 0	11 x x x x	x x x x x	M S 10 S 10 L 8 M	Mis 3,161	
Pinkstaff; Lawrence; 4N; 11W	McClosky, Mis 1951	1,735	20	0	0.1	1	0	0	0	x	x	L 4	Mis 1,797
Pinkstaff E; Lawrence; 4N; 11W	McClosky, Mis 1955	1,640	20	x	x	1	0	0	0	x	x	L 6	Mis 2,193
Pittsburg N <sup>†</sup> ; Williamson; 8S; 3E	Aux Vases, Mis 1964	2,578	10	3	3	1	1	0	1	x	x	LS 8	Mis 2,836
Pixley; Clay; 4N; 8E	Cypress, Mis 1959	2,680	20	x	x	2	0	0	0	x	x	S 9	Mis 3,121
Plainview <sup>†</sup> ; Macoupin; 9N; 8W	Pennsylvanian 1942	410	10	0	2	1	0	0	0	34	x	S 5	X Pen 513
Plainview S; Macoupin; 8N; 8W	Pennsylvanian 1959	444	10	x	x	1	0	0	0	x	x	S 8	X Pen 642
Posen; Washington; 3S; 2W	Trenton, Ord 1952	3,900	80	3	75	4	0	0	1	x	x	L 25	A Ord 3,954

TABLE 8 -- ILLINOIS OIL POOL STATISTICS, 1964 -- Continued

Pool; county; location by township and range (• Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year			
Posen N; Washington; 3S; 2W	Trenton, Ord	4,015	1953	10	0	4	1	0	0	0	x x x	L 15 AC	Ord 4,112
			Abd 1959										
Posen S; Washington; 3S; 2W	Benoist, Mis	1,255	1955	40	x	x	4	0	0	0	x x	S 2 X	Mis 1,300
			Abd 1959										
Posey; Clinton; 1N; 2W	Cypress, Mis	1,105	1941	210	0.2	11	23	15	0	22	36 0.18	M	Sil 2,798
	Devonian	2,675	1959	190	x	x	22	15	0		x	S 5 M	
				20	x		1	0	0		x x	L 5 M	
Posey E; Clinton; 1N; 2W	Dev-Sil	2,740	1952	560	31	363	26	0	0	25	x x x	L 8 X	Dev 2,805
Posey W; Clinton; 1N; 3W	Devonian	2,585	1954	10	0	1	1	0	0	0	x x	L 15 X	Dev 2,604
			Abd 1954										
Prentice <sup>†</sup> ; Morgan; 16N; 8W	Pennsylvanian	270	1953	30	0	0	3	0	0	0	x x	S 10 X	Ord 1,513
Pyramid; Washington; 2S; 1W	Devonian	3,109	1962	120	9	33	6	0	0	6	x x	S 6 X	Dev 3,255
•Raccoon Lake; Marion; 1N; 1E	Cypress, Mis	1,625	1949	400	48	3,179	47	0	3	21	x	S 10 D	Sil 3,530
	Benoist, Mis	1,715	1957	190	x	x	18	0	1		x x	S 15 DL	
	Ohara, Mis	1,885		20	x	x	2	0	0		x x	L 5 DC	
	Spar Mtn, Mis	1,930		220	x	x	11	0	2		x x	S 12 DC	
	McClosky, Mis	1,950		280	x	x	13	0	0		x x	L 10 DC	
	Dev-Sil	3,330		300	x	x	15	0	0		x x	D 10 R	
	2 or more pays						10	0	0				
•Raleigh; Saline; 7-8S; 6E	Tar Springs, Mis	2,235	1953	520	251	1,568	48	1	0	23	x	A	Mis 3,249
	Cypress, Mis	2,550		20	x	x	2	0	0		x x	S 20 A	
	Paint Creek, Mis	2,738	1958	390	x	x	37	1	0		x x	S 12 A	
	Aux Vases, Mis	2,905		80	x	x	1	0	0		x x	S 5 A	
	Ohara, Mis	3,054	1959	20	x	x	8	0	0		x x	S 5 A	
	Spar Mtn, Mis	3,025	1957	20	x	x	1	0	0		x x	L 3 A	
	2 or more pays				x	x	1	0	0		x x	LS 10 A	
							2	0	0				
•Raleigh <sup>†</sup> ; Saline; 8S; 5-6E	Waltersburg, Mis	2,046	1955	360	31	944	33	0	3	23	x	X	Mis 3,092
	Bethel, Mis	2,739	1959	40	x	x	4	0	0		x x	S 10 X	
	Aux Vases, Mis	2,860	1958	10	x	x	1	0	0		x x	S 8 X	
	2 or more pays		1955	320	x	x	29	0	3		x x	S 16 X	
			1958				1	0	0				
Raymond; Montgomery; 10N; 4-5W	Pottsville, Pen	590	1940	100	0.8	24	10	0	0	2	35 0.22	S 10 ML	Dev 2,049
•Raymond E; Montgomery; 10N; 4W	Pennsylvanian	595	1951	60	1	27	5	0	0	2	34 x	S 10 X	Mis 1,008
Raymond S; Montgomery; 10N; 4W	Unnamed, Pen	603	1959	10	0	0	1	0	0	0	x x	S 6 X	Pen 680
			Abd 1959										
Reservoir; Jefferson; 1S; 3E	Spar Mtn, Mis	2,443	1950	320	17	345	16	0	0	10	x	MC	Mis 3,211
	McClosky, Mis	2,700	1959	40	x	x	2	0	0		x x	S 7 M	
	Salem, Mis	3,034	1961	240	x	x	13	0	0		x x	L 6 MC	
				20	x	x	1	0	0		x x	L 12 M	



Richview; Washington; 2S; 1W	Cypress, Mis	1,500	1946	560	112	1,033	79	4	0	0	74	x	x	S	12	AL	Mis	1,932
Ridgway; Gallatin; 8S; 8E			1946	30	0	0.1	2	0	0	0	0					MC	Mis	2,938
	Palestine, Mis	1,730	1955	10	Abd 1946; rev 1955; abd 1956	0	1	0	0	0		x	x	S	18	ML		
	McClosky, Mis	2,840	1946	20	0	0.1	1	0	0	0		x	x	L	6	MC		
Riffle; Clay; 4N; 6E	Spar Mtn, Mis	2,735	1948	100	0	81	5	0	0	0	0	36	x	L	7	MC	Mis	2,848
					Abd 1961													
Rinard; Wayne; 2N; 7E	McClosky, Mis	3,145	1937	20	0	7	1	0	0	0	0	39	x	L	5	AC	Mis	3,280
					Abd 1942													
Rinard N; Wayne; 2N; 7E	Spar Mtn, Mis	3,135	1952	200	3	226	10	0	0	0	1	x	x	L	6	MC	Mis	3,293
	McClosky, Mis	3,140		200	3	226	9	0	0	0		x	x	L	5	MC		
Ritter; Richland; 3N; 10-11E	Ste. C, Mis	3,215	1950	120	17	230	6	0	0	0	2	x	x	L	5	X	Mis	3,925
					Abd 1960; rev 1961													
*Ritter N; Richland; 3N; 11E	Ohara, Mis	3,203	1951	220	5	158	11	0	2	0	6				X		Mis	3,288
	Spar Mtn, Mis	3,215	1960	20	x	x	1	0	1	0		x	x	L	6	X		
	McClosky, Mis	3,205	1952	160	x	x	8	0	2	0		x	x	L	6	X		
	2 or more pays		1951	60	x	x	3	0	0	0		x	x	L	5	X		
			1960				1	0	1									
Roaches; Jefferson; 2S; 1E	Benoist, Mis	2,000	1938	200	0	620	13	0	0	0	2					A	Dev	3,840
	Ohara, Mis	2,170		30	x	x	3	0	0	0		x	x	S	x	AL		
	Spar Mtn, Mis	2,190		60	x	x	3	0	0	0		37	0.22	L	5	AC		
	McClosky, Mis	2,250		160	x	x	8	0	0	0		37	0.22	L	12	AC		
	2 or more pays			120	x	x	6	0	0	0		37	0.22	L	4	AC		
							3	0	0	0								
*Roaches N; Jefferson; 2S; 1E	Benoist, Mis	1,925	1944	350	21	1,531	35	0	1	0	23				A		Trn	4,996
	Spar Mtn, Mis	2,115		350	x	x	32	0	1	0		x	x	S	7	A		
	Trenton	4,852	1962	80	x	x	4	0	0	0		x	x	L	8	AC		
	2 or more pays			20	x	x	1	0	0	0		x	x	L	44	X		
							2	0	0	0								
Roby; Sangamon; 15N; 3W	Burl-Keok, Mis	1,336	1949	260	17	196	15	1	0	0	10						SiL	1,905
	Silurian	1,699	1962	60	1	18	3	0	3	0		x	x	L	4	X	Trn	2,300
					Abd 1964													
Roby W; Sangamon; 15N; 3W	Hibbard, Dev	1,655	1957	20	0	2	1	0	0	0	0	x	x	S	5	MU	Trn	2,259
					Abd 1963													
*Rochester <sup>†</sup> ; Wabash; 2S; 13W	Pennsylvanian	1,300	1948	330	219	1,903	45	0	0	0	31				M		Mis	2,810
	Waltersburg, Mis	1,940		180	x	x	18	0	0	0		x	x	S	16	Mcf		
	2 or more pays			210	x	x	27	0	0	0		x	x	S	20	ML		
							3	0	0	0								
*Roland C <sup>†</sup> ; White, Gallatin; 5-7S; 8-9E	Pennsylvanian	1,410	1940	9,450	947	43,526	881	3	14	0	571				A		Dev	5,266
	Degonia, Mis	2,065		60	x	x	5	0	0	0		36	x	S	10	A		
	Clore, Mis	1,993	1963	40	x	x	4	1	0	0		x	x	S	7	A		
	Palestine, Mis	2,085		40	x	x	4	3	0	0		x	x	S	4	X		
	Waltersburg, Mis	2,200		2,130	x	x	117	0	0	0		36	x	S	2	A		
	Tar Springs, Mis	2,300		390	x	x	35	0	1	0		38	0.25	S	15	AL		
	Hardinsburg, Mis	2,550		1,540	x	x	143	0	8	0		37	x	S	15	AL		
	Colconda, Mis	2,505	1955	10	x	x	1	0	0	0		x	x	S	20	AL		
	Cypress, Mis	2,700		1,580	x	x	133	0	4	0		32	0.12	S	5	A		

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery - see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil	Pay zone	Deepest test zone and depth (ft)
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964			
Roland C (cont.)	Paint Creek, Mis	2,800		370	x	x	31	0	0	36 x	S 12 AL	
	Bethel, Mis	2,800		1,160	x	x	78	0	0	32 0.20	S 12 AL	
	Aux Vases, Mis	2,880		2,620	x	x	239	0	1	32 0.12	S 13 AL	
	Ohara, Mis	3,020		620	x	x	24	0	0	36 x	OL 6 AC	
	Spar Mtn, Mis	3,050		620	x	x	24	0	0	37 x	L 6 AC	
Roland W; Saline; 7S; 7E	McClosky, Mis	3,070		1,800	x	x	79	0	0	37 0.20	L 6 AC	
	St. Louis, Mis	x		20	x	x	1	0	0	x x	L x AC	
	2 or more pays						119	2	0			
	Aux Vases, Mis	2,935	1950	10	0	22	1	0	0	x x	S 15 ML	Mis 3,161
					Abd 1959							
•Ruark; Lawrence; 2N; 12-13W	Pennsylvanian	1,600	1941	450	22	2,436	44	0	1	30	A	Mis 2,442
	Bethel, Mis	2,075		320	x	x	33	0	1		S 10 AL	
	Aux Vases, Mis	2,145		90	x	x	7	0	0	x x	S 11 AL	
	Ohara, Mis	2,275		30	x	x	3	0	0	x x	S 7 AL	
	2 or more pays			20	0	0	1	0	0	x x	L 5 AC	
Ruark W C; Lawrence; 2N; 13W	Waltersburg, Mis	1,780	1947	610	9	888	56	0	0	50	M	Mis 2,633
	Cypress, Mis	2,165		50	x	x	6	0	0	x x	S 10 ML	
	Bethel, Mis	2,220		10	x	x	1	0	0	x x	S 9 ML	
	Ohara, Mis	2,350		80	x	x	4	0	0	x x	L 5 MC	
	Spar Mtn, Mis	2,390		40	x	x	2	0	0	x x	L 5 MC	
•Rural Hill N; Hamilton; 6S; 5E	McClosky, Mis	2,400		280	x	x	14	0	0	x x	L 3 MC	
	2 or more pays						11	0	0			
	Waltersburg, Mis	1,780	1947	610	9	888	56	0	0	50	M	Mis 2,633
	Cypress, Mis	2,165		50	x	x	6	0	0	x x	S 10 ML	
	Bethel, Mis	2,220		10	x	x	1	0	0	x x	S 9 ML	
Rushville NW; Schuyler; 2N; 2W	Ohara, Mis	2,350		80	x	x	4	0	0	x x	L 5 MC	
	Spar Mtn, Mis	2,390		40	x	x	2	0	0	x x	L 5 MC	
	McClosky, Mis	2,400		280	x	x	14	0	0	x x	L 3 MC	
	2 or more pays						11	0	0			
Russellville Gas; Lawrence; 4-5N; 10-11W	Cypress, Mis	2,930	1949	90	5	195	8	0	0	2	M	Mis 3,468
	Spar Mtn, Mis	3,325		60	5	194	7	0	0		S 10 ML	
	Silurian	669	1960	20	0	0.5	1	0	0	1	L 3 AC	Trn 1,038
	McClosky, Mis	1,560	1937	40	0	12	2	0	0	0	L 7 AC	Dev 3,133
Russellville W; Lawrence; 5N; 11W	Spar Mtn, Mis	1,565	1955	20	0	2	1	0	0	0	L 22 X	Mis 1,646
	Bethel, Mis	1,845	x	740	x	x	87	1	0	45	S 6 ML	Mis 2,164
•St. Francisville; Lawrence; 2N; 11W	Pennsylvanian	1,260	1941	320	25	567	30	2	0	24	A	Mis 1,960
	Waltersburg, Mis	1,300		50	x	x	5	2	0		S 8 AL	
	Hardinsburg, Mis	1,460		10	x	x	1	0	0	x x	S 6 AL	
	Cypress, Mis	1,605		20	x	x	3	0	0	x x	S 6 AL	
	Bethel, Mis	1,750		270	x	x	18	0	0	37 0.21	S 20 A	
•St. Jacob; Madison; 3N; 6W	Spar Mtn, Mis	1,822	1963	20	x	x	1	0	0	x x	L 5 X	
	Trenton, Ord	2,260	1942	1,120	133	3,300	53	0	0	29	L 17 A	Pc 5,019
	Hardin, Dev	1,840	1955	20	0	1	1	0	0	0	S x U	Ord 2,600

See Lawrence County Division for Production

Abd 1957

Abd 1950; rev 1956

Abd 1957

•St. James; Fayette; 5-6N; 2-3E		1938	2,140	568	17,084	262	13	2	175	x	x	L	15	A	Dev
Golconda, Mis	1,555		10	0	x	1	0	0							
Cypress, Mis	1,580		1,890	x	x	199	1	2		34	0.31	S	16	A	
Benoist, Mis	1,746	1959	10	x	x	1	0	0				S	8	A	
Spar Mtn, Mis	1,860		190	x	x	10	0	0		38	x	L	16	A	
Carper, Mis	3,070	1961	630	x	x	52	12	0		x	x	S	35	A	
2 or more pays						1	0	0							
St. Paul; Fayette; 5N; 3E		1941	380	78	818	36	0	0	28	34	0.23	S	9	A	Dev
Benoist, Mis	1,900		240	x	x	18	1	0		x	x	L	6	A	
Spar Mtn, Mis	2,080		20	0	0	1	0	0		36	x	S	28	X	
Carper, Mis	3,288	1963	200	x	x	19	1	2							
•Ste. Marie; Jasper; 5N; 10-11E, 14W		1941	1,420	38	1,451	56	2	0	29	38	0.14	L	8	AC	Mis
McClosky, Mis	2,685	1949	80	Abd	1951	4	0	0	0	x	x	L	10	MC	Mis
Ste. Marie E; Jasper; 6N; 14W															
Ste. Marie W; Jasper; 5-6N; 10E		1949	280	17	311	16	2	0	14	38	x	S	25	ML	Mis
Aux Vases, Mis	2,720	1949	10	x	x	1	0	0		38	x	L	6	MC	
McClosky, Mis	2,815		280	x	x	16	2	0		38	x				
•Sailor Springs Cen; Clay; 3-4N; 7-8E		1948	80	0.7	6	7	2	0	2						
Tar Springs, Mis	2,330		40	0.7	1	5	2	0		x	x	S	6	ML	
Spar Mtn, Mis	3,015		40	0	5	2	0	0		x	x	L	4	MC	
•Sailor Springs C; Clay, Effingham, Jasper; 3-6N; 6-8E		1938	16,990	1,639	39,460	1,137	24	42	746	37	0.17	S	12	A	Dev
Tar Springs, Mis	2,340		710	x	x	49	0	0							
Glen Dean, Mis	2,390		10	x	x	1	0	0		x	x	L	8	A	
Cypress, Mis	2,550		9,190	x	x	574	10	20		99	0.28	S	12	A	
Bethel, Mis	2,740		430	x	x	35	0	4		36	x	S	20	A	
Aux Vases, Mis	2,825		1,280	x	x	125	6	11		39	x	S	13	A	
Ochara, Mis	2,900		300	x	x	12	0	0		37	x	OL	6	A	
Spar Mtn, Mis	2,900		2,440	x	x	121	6	3		x	x	LS	8	A	
McClosky, Mis	2,925		5,240	x	x	267	6	7		38	x	OL	8	A	
2 or more pays						80	3	3							
Sailor Springs E; Clay; 4N; 8E		1944	140	0	64	12	0	0	0						
Cypress, Mis	2,695		100	Abd	1952; rev 1955; abd 1956; rev 1960; abd 1961	10	0	0		x	x	S	8	D	
McClosky, Mis	3,020	1955	40	0	2	2	0	0		x	x	L	7	D	
Sailor Springs N; Clay; 4N; 8E		1948	100	0	5	5	0	0	0						
Spar Mtn, Mis	2,985		60	x	x	3	0	0		x	x	L	2	MC	
McClosky, Mis	3,030		80	x	x	4	0	0		x	x	L	2	MC	
2 or more pays						2	0	0							
•Salem C; Marion, Jefferson; 1-2N, 1S; 1-2E		1938	14,880	8,996	318,642	2,822	8	76	1,542	38	x	S	40	A	St.P
Benoist, Mis	1,780		x	x	x	615	2	14		39	0.21	S	40	A	
Aux Vases, Mis	1,825		x	x	x	815	5	8		37	x	L	3	A	
Ochara, Mis	2,075		x	x	x	2	0	0		37	x	LS	15	A	
Spar Mtn, Mis	2,100		x	x	x	148	1	2		37	x	L	17	A	
McClosky, Mis	2,050		x	x	x	884	3	37		37	x	L	17	A	
St. Louis, Mis	2,100		x	x	x	15	0	0		37	x	L	17	A	
Salem, Mis	2,160		x	x	x	274	0	7		37	x	L	17	A	
Devonian	3,440		5,860	x	x	638	0	14		42	0.28	L	40	A	
Trenton, Ord	4,500		2,200	x	x	97	0	8		39	x	L	50	A	
2 or more pays						738	2	12							
Waltersburg, Mis	2,420	1942	30	0	1	3	0	0	0	x	x	S	7	A	Mis
•Samsville; Edwards; 1N; 11E				Abd	1952										

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (Secondary recovery — see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells			Character of oil	Pay zone	Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964			
Samsville N; Edwards; 1N; 14W	Bethel, Mis	2,900	1945	180	2	248	16	0	0	2	x x x	Mis 3,220
Samsville NW; Edwards; 1N; 10E	Ohara, Mis	3,190	1955	20	0	3	1	0	0	0	x	Mis 3,248
Abd 1956												
Samsville W; Edwards; 1N; 10E	Ohara, Mis	3,260	1951	120	3	172	5	0	0	3	x	Mis 3,425
Sandoval; Marion; 2N; 1E	Spar Mtn, Mis	3,275		60	x	x	3	0	0		x	L 6 X
	McClosky, Mis	3,275		40	x	x	2	0	0		x	L 6 X
				40	x	x	2	0	0		x	L 6 X
	Cypress, Mis	1,400	1909	500	22	5,939	153	0	0	x	x	D
	Benoist, Mis	1,540		20	0	0	1	0	0		x	S 10 D
Sandoval W; Clinton; 2N; 1W	Ceneva, Dev	2,920		460	0	2,705	123	0	0		35 x	S 20 D
	2 or more pays			390	22	3,234	28	0	0		38 0.38	D 9 R
							1	0	0			
				20	0	26	1	0	0	0		A
Santa Fe; Clinton; 1N; 3W	Cypress, Mis	955	1944	10	0	2	1	0	0	0	x	S 10 A
					Abd 1947							Dev 2,542
Schnell; Richland; 2N; 9E	McClosky, Mis	3,000	1938	80	3	272	4	0	0	2	37 0.19	OL 5 AC
Schnell E; Richland; 2N; 9E	McClosky, Mis	3,115	1954	20	0	0.5	1	0	0	0	x	L 4 AC
Abd 1954												
Sciota; McDonough; 7N; 3W	Devonian	519	1960	20	0	0	1	0	0	0	28 x	L 16 X
Abd 1960												
Seminary; Richland; 2N; 10E	McClosky, Mis	3,195	1945	160	1	228	8	0	0	2	x	L 8 MC
Sesser C; Franklin; 5-S; 1-2E	Cypress, Mis	2,455	1942	1,250	85	2,442	99	5	0	79	x	A
	Renault, Mis	2,690		20	x	x	2	0	0		x	S 5 AL
	Aux Vases, Mis	2,700		270	x	x	25	3	0		39 0.17	S 10 AC
	Ohara, Mis	2,675		830	x	x	67	5	0		39 0.17	S 10 AL
	Spar Mtn, Mis	2,810		40	x	x	2	1	0		x	L 8 A
	McClosky, Mis	2,840		80	x	x	4	0	0		x	L 10 AC
	St. Louis, Mis	3,002		100	x	x	5	0	0		x	L 5 AC
	Clear Creek, Dev	4,360		20	x	x	1	0	0		x	L 20 AC
	2 or more pays			160	x	x	7	0	0		x	L x AC
							13	4	0			
Shattuc; Clinton; 2N; 1W	Cypress, Mis	1,280	1945	370	19	633	34	4	2	17	x	A
	Benoist, Mis	1,420		180	x	x	15	2			x	S 7 AL
	Trenton, Ord	4,020		50	x	x	5	3	1		x	S 13 AL
Shattuc N; Clinton; 2N; 1W	Benoist, Mis	1,445	1961	10	0.1	2	1	0	1	0	x	L 13 A
					Abd 1964							S 7 X
Shawneetown; Callatin; 9S; 9E			1945	60	0	16	5	0	0	0		Mis 1,457
					Abd 1950; rev 1955; abd 1960							Mis 2,837



[illegible]



Tamaroa <sup>†</sup> ; Perry; 4S; 1W	1942 1942 1942 1964 1964	1,120 4,135 240 2 or more pays	380 160 240	36 15 21	295 274 21	20 15 6 1	6 1 6 1	0 0 0 0	12 36 0.12	S L 40	Trn 4,287
Tamaroa S; Perry; 4S; 1W	1957	1,155	190	17	208	17	0	1	15	x	Mis 1,200
Tamaroa W; Perry; 4S; 2W	1956	1,100	20	0.5	x	2	0	0	2	x	Mis 1,600
Taylor Hill; Franklin; 5S; 4E	1949 1949	3,055 Harrodsburg, Mis 3,940	100 60 40	4 x x	76 x x	5 3 2	0 0 0	0 0 0	3	x x x	Mis 4,093
Thackeray; Hamilton; 5S; 7E	1944	Cypress, Mis 3,030 Aux Vases, Mis 3,360 Ohara, Mis 3,435 McClosky, Mis 3,500 2 or more pays	740 20 680 20 120	67 x x x	3,123 x x x	67 2 63 1 6 2	1 0 1 0 0 0	19 0 19 0 1 0	32	x x x x x	Dev 5,611
Thompsonville; Franklin; 7S; 4E	1940	McClosky, Mis 3,120	240	0	285	19	0	0	0	38	Mis 3,455
Thompsonville E; Franklin; 7S; 4E	1949	Aux Vases, Mis 3,150	120	14	449	12	0	0	6	38	Mis 3,371
Thompsonville N; Franklin; 7S; 4E	1944	Cypress, Mis 2,750 Aux Vases, Mis 3,100	750 20 710	113 x x	3,472 x x	87 1 86	0 1 0	9 1 8	32	x x 39	Mis 3,365
Tilden; Randolph; 4S; 5W	1952	Silurian	680	145	3,220	33	0	0	32	42	Ord 3,093
Tolliver E; Clay; 5N; 6-7E	1943 1955	Cypress, Mis 2,510 Spar Mtn, Mis 2,815 McClosky, Mis 2,840	90 10 20 60	0 0 0 1	230 0 14 216	5 1 1 3	0 0 0 0	0 0 0 0	2	x x x	Mis 2,965
Tolliver S; Clay; 4N; 6E	1953	Aux Vases, Mis 2,765 McClosky, Mis 2,875	70 10 60	0 0 0	58 21 37	4 1 3	0 0 0	3 0 3	0	x x 34	Mis 2,915
Tonti; Marion; 2-3N; 2E	1938	Benoist, Mis 1,930 Aux Vases, Mis 2,005 Spar Mtn, Mis 2,125 McClosky, Mis 2,130 Devonian 3,500 2 or more pays	880 x x x x 80	170 x x x x x	12,470 x x x x x	105 16 23 12 68 7 10	0 0 0 1 1 0	7 2 0 2 5 0 1	71	x x x x 0.21 x	Ord 4,900
Tovey; Christian; 13N; 3W	1955	Silurian	20	8	23	1	0	0	1	38	Sil 1,881
Trumbull C; White; 5S; 8-9E	1944 1962	Tar Springs, Mis 2,528 Cypress, Mis 2,845 Bethel, Mis 2,955 Aux Vases, Mis 3,170 Ohara, Mis 3,230 Spar Mtn, Mis 3,270 McClosky, Mis 3,290 2 or more pays	1,380 20 290 10 390 360 220 380	120 x x x x x x	2,408 x x x x x x	105 2 29 1 38 19 11 19	0 0 0 0 0 0 0	1 0 0 0 0 0 1	71	x x 36 x 36 x x x	Mis 4,125
Trumbull N; White; 4S; 8E	1961 1961	Aux Vases, Mis 3,325	50 10	0.5 x	6 x	3 1	0 0	0 0	3	x x	Mis 3,537

TABLE 8 - ILLINOIS OIL POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range (•Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test	
	Name and age	Depth (ft)			Completed to end of 1964	Com-pleted in 1964	Aban-doned in 1964	Pro-ducting end of year						
Trumbull N (cont.)	McClosky, Mis	3,466	1961	40	x	x	2	0	0		x	x	OL 16 X	
Turkey Bend; Perry; 4S; 2W	Trenton, Ord	3,940	1957	20	2	29	1	0	0	1	x	x	L x X	Ord 4,044
Valier; Franklin; 6S; 2E			1942	60	24	31	5	3	2	2				Mis 2,900
	Aux Vases, Mis	2,685	1963	40	Abd 1945; rev 1963		4	3	1		x	x	S 7 X	
	McClosky, Mis	2,715	1942	20	0	2	1	0	1		x	x	L 12 ML	
Virden W; Macoupin; 12N; 7W	Devonian	1,361	1963	40	0	0	2	0	0	2	x	x	L 20 X	Dev 1,390
Waggoner <sup>†</sup> ; Montgomery; 11N; 5W	Pottsville, Pen	610	1940	60	0.3	12	6	0	1	0	28	0.21	S 10 X	SiL 1,945
				Abd 1949; rev 1959; abd 1960; rev 1963; abd 1964										
Wakefield; Jasper; 5N; 9E	Spar Mtn, Mis	3,100	1946	40	0	2	2	0	0	0	x	x	L 5 X	Mis 3,207
				Abd 1947; rev 1953; abd 1954										
Wakefield N; Jasper; 5N; 9E	McClosky, Mis	3,000	1953	20	0	20	1	0	0	0	x	x	L 6 X	Mis 3,204
				Abd 1958										
Wakefield S; Richland; 5N; 9E	McClosky, Mis	3,040	1955	20	0	0	1	0	0	0	x	x	L 4 X	Mis 3,650
				Abd 1955										
•Walpole; Hamilton; 6-7S; 6E			1941	2,020	696	8,748	125	8	4	87			A	Dev 5,325
	Tar Springs, Mis	2,465		100	x	x	7	0	0		36	x	S 15 AL	
	Aux Vases, Mis	3,070		1,850	x	x	113	8	4		38	0.13	S 20 A	
	Spar Mtn, Mis	3,195		40	x	x	2	0	0		x	x	L 7 AC	
	McClosky, Mis	3,162	1960	80	x	x	4	0	0		x	x	OL 7 AC	
	St. Louis, Mis	3,544	1960	20	x	x	1	0	0		x	x	L 8 AC	
Walpole S; Hamilton; 7S; 6E	Aux Vases, Mis	3,120	1951	20	0	119	2	0	0	2	x	x	S 6 AL	Mis 3,362
Waltonville; Jefferson; 3S; 2E			1943	60	2	120	5	0	0	4			A	Mis 3,375
	Benoist, Mis	2,460	1943	40	x	x	4	0	0		38	0.14	S 9 A	
	St. Louis, Mis	2,767	1962	20	x	x	1	0	0		x	x	L 14 X	
•Wamac; Marion, Clinton, Washington; 1N; 1E, 1W			1921	320	8	685	117	0	0	10			DF	Ord 4,160
	Petro, Pen	720	1921	270	x	x	115	0	0		30	x	S 20 DF	
	Devonian	3,015	1959	20	x	x	1	0	0		x	x	L 9 DF	
Wamac E <sup>†</sup> ; Marion; 1N; 1E	Isabel (Wilson sand), Pen	845	1952	110	2	47	11	0	1	6	x	x	S 15 ML	Mis 2,216
Wamac W; Clinton; 1N; 1W			1962	180	78	259	17	6	2	15			X	Mis 1,622
	Cypress, Mis	1,312	1962	60	x	x	6	5	0	6	x	x	S 8 X	
	Benoist, Mis	1,466	1962	120	x	x	11	1	2	9	x	x	S 12 X	
Wapella E; DeWitt; 21N; 3E			1962	420	242	516	21	1	0	21			L 5 X	St.P 2,216
	Devonian	1,108	1963	60	x	x	3	0	0	3	x	x	L 5 X	
	Silurian	1,112	1962	380	242	516	21	1	0	21	30.5	x	D 6 R	
	2 or more pays		1963				3	0	0	3				
Warrenton-Borton; Edgar, Coles; 13-14N; 13-14W	Unnamed, Pen	200	1906	300	0.3	32	44	0	0	x	31	x	S 20 ML	Trn 2,212



Waterloo; Monroe; 1-2S; 10W	Trenton, Ord	410	1920	230	0	238	41	0	0	3	30	0.97	L	50	A	Pc	2,768
				Abd 1930; rev 1939; Converted in part to Gas Storage, 1951													
Watson; Effingham; 7N; 5-6E	Spar Mtn, Mis McClosky, Mis	2,415 2,434	1957 1957 1958	60 40 20	4	47	3 2 1	0 0 0	0 0 0	1	x x 38	x	S L	5 11	X	Mis	2,647
Waverly <sup>†</sup> ; Morgan; 13N; 8W	Dev-Sil	1,020	1946	40	0	0	1	0	0	0	x	x	L	10	A	Ord	2,070
Weaver; Clark; 11N; 10W	Cole, Mis Devonian	1,565 2,030	1949	760 20 720	61	1,929	42 1 40	0 0 0	0 0 0	30	x x 37	x	S L	5 10	R	Dev	2,160
•West Frankfort C; Franklin; 7S; 2-3E	Tar Springs, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,060 2,710 2,760 2,810 2,825	1941	1,890 800 290 820 120 400	291	5,999	61 70 27 42 6 21 22	3 0 2 1 0 1	0 0 0 0 0 0	109	39 37 39 x 38	0.13	S S L L L	20 20 8 8 14	A	Mis	3,156
•West Seminary; Clay; 2N; 7E	Aux Vases, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,972 3,059 3,068	1959 1959 1959 1959	310 160 60 260	112	556	27 17 3 13 4	0 1 0 0 0	12 7 3 5 2	13	x x x x		S L OL	10 6 12	MC	Mis	3,198
•Westfield; Clark, Coles; 11-12N; 11E, 14W	Gas, Pen Westfield, Mis Carper, Mis Trenton, Ord 2 or more pays	280 335 875 2,300	1904	10,460 9,140 9,370 290 1,540	x	x	1,800 220 13 28 87 5	11 0 2 8 1 0	4 0 0 0 4 0	244			D			St.P	3,009
•Westfield E <sup>†</sup> ; Clark; 11-12N; 14W	Pennsylvanian	400	1947	200	x	x	23	6	0	13	x	x	S	11	ML	Pen	678
Westfield N; Coles; 12N; 14W			1949	20	0	0.4	2	0	0	0					X	Pen	611
	Pleasantview, Pen Pennsylvanian	275 490		10 10	0 0	0.4 0	1 1	0 0	0 0		x x	x	S S	5 10	X		
Whittington; Franklin; 6S; 3E	Hardinsburg, Mis Cypress, Mis PaintCreek, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis St. Louis, Mis 2 or more pays	2,310 2,535 2,612 2,735 2,835 2,880 2,870 3,080	1939 1961	800 x 130 10 80 240 40 100 40	153	1,493	60 23 13 1 8 12 2 6 2 3	6 0 3 0 0 0 0 0 0	0 0 0 0 0 0 0	49	x x 39 x x x 38 38		S S S S L L L	10 10 4 15 10 10 9 6	A	Dev	4,810
Whittington S; Franklin; 5-6S; 3E	Cypress, Mis	2,580	1950	100	11	420	10	0	0	10	x	x	S	10	A	Mis	3,045
•Whittington W; Franklin; 5S; 2E	Benoist, Mis Renault, Mis Aux Vases, Mis Ohara, Mis Spar Mtn, Mis McClosky, Mis 2 or more pays	2,615 2,700 2,800 2,780 2,900	1943 1961	520 10 30 410 100 40 60	120	1,437	38 1 4 32 5 2 3 8	3 0 0 2 0 0 1 0	0 0 0 0 0 0	19	x x x x x x		S L S L L	10 x 15 4 6	AL	Mis	3,535
•Wilberton; Fayette; 5N; 2-3E			1959	540	98	798	51	1	1	49						Ord	4,528

TABLE 8 — ILLINOIS OIL POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range (*Secondary recovery – see Part II)	Pay zone		Year of discovery	Area proved in acres	Oil production M bbls		Number of wells				Character of oil	Pay zone	Deepest test	
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Com-pleted in 1964	Aban-doned 1964	Pro-ducing end of year				
Wilberton (cont.)	Borden, Mis	2,628	1963	10	x	x	1	0	1	x	x	S 38 X	Zone and depth (ft)	
	Carper, Mis	3,203	1961	490	x	x	48	1	0	x	x	S 39 X		
	Lingle, Dev	3,466	1959	10	x	x	3	0	0	28	x	S 4 X		
	2 or more pays						1	0	0					
Williams C; Jefferson; 2-3S; 2E	Benoist, Mis	2,490	1948	410	33	1,104	42	0	0	36	x	x	A	Dev 4,578
	Aux Vases, Mis	2,550		170	x	x	14	0	0		x	x	S 10 AL	
	McClosky, Mis	x		290	x	x	29	0	0		x	x	S 5 AL	
	2 or more pays			20	x	x	1	0	0		x	x	L x AC	
•Willow Hill E; Jasper; 6-7N; 10-11E	McClosky, Mis	2,645	1946	320	3	257	18	0	0	2	x	x	L 6 A	Mis 3,281
•Woburn C; Bond; 6-7N; 2W	Cypress, Mis	865	1940	1,750	84	4,026	135	0	2	84	35	x	S 8 AL	Ord 3,279
	Benoist, Mis	1,020		220	x	x	20	0	0		36	0.20	S 10 AL	
	Renault, Mis	1,047	1958	20	x	x	38	0	0		36	x	L x AL	
	Aux Vases, Mis	1,055	1956	100	x	x	1	0	0		39	x	S 10 A	
	Lingle, Dev	2,275		1,040	x	x	4	0	0		35	x	S 10 AL	
	Trenton, Ord	3,170		380	x	x	56	0	1		38	0.27	S 8 AC	
	2 or more pays						18	0	1		38	0.27	L 12 AC	
Woodlawn; Jefferson; 2-3S; 1-2E			1940	1,980	200	16,504	191	0	3	104			A	Ord 5,101
	Tar Springs, Mis	x		20	x	x	2	0	0		x	x	S x AL	
	Cypress, Mis	1,800		80	x	x	3	0	0		x	x	S 10 AL	
	Benoist, Mis	1,960		1,900	x	x	173	0	3		38	0.16	S 25 A	
	Aux Vases, Mis	1,975		240	x	x	24	0	1		39	x	S 10 A	
	Spar Mtn, Mis	2,205		300	x	x	15	0	0		39	x	LS 15 A	
	McClosky, Mis	2,200		20	x	x	1	0	0		x	x	L 3 A	
	Lingle, Dev	3,690		240	x	x	11	0	0		39	x	S 6 A	
Xenia; Clay; 2N; 5E			1941	30	0.5	37	3	0	0	3			A	Dev 4,745
	Aux Vases, Mis	2,785	1941	10	x	x	1	0	0		35	0.19	S 13 A	
	Carper, Mis	4,230	1962	20	x	x	2	0	0		x	x	S 12 X	
Xenia E; Clay; 2N; 5E			1951	280	37	678	29	1	5	16	x	x	A	Mis 4,620
	Cypress, Mis	2,500		200	x	x	18	1	5		x	x	S 6 AL	
	Benoist, Mis	2,710		90	x	x	9	0	0		x	x	S 6 AL	
	Renault, Mis	2,755	1959	20	x	x	2	0	0		x	x	S 15 AL	
	Aux Vases, Mis	2,741	1960	30	x	x	3	0	0		x	x	S 10 A	
	2 or more pays						3	0	0					
•York; Cumberland, Clark; 9-10N; 10-11E, 14W	Isabel, Pen	590	1907	410	x	x	78	0	1	13	30	x	S 15 AM	Dev 2,642
					See Clark County Division for Production. Abd 1945; rev 1950									
Zeigler; Franklin; 7S; 2E	Aux Vases, Mis	2,614	1963	280	230	295	28	18	0	28	x	x	S 19 X	Mis 2,808
•Zenith; Wayne; 2N; 5E	McClosky, Mis	2,970	1948	40	0	24	2	0	0	0	x	x	L 7 AC	Mis 3,059
					Abd 1956									
•Zenith N; Wayne; 2N; 6E			1951	280	19	959	14	0	1	10			N	Mis 3,254
	Spar Mtn, Mis	3,080		240	x	x	12	0	0		x	x	L 6 NC	
	McClosky, Mis	3,140		180	x	x	6	0	1		x	x	L 4 NC	
	2 or more pays						4	0	0					
Zenith S; Wayne; 1N; 5E			1949	280	0.7	764	14	0	0	1			N	Mis 3,116
	Ohara, Mis	2,920		40	x	x	2	0	0		x	x	L 6 MC	
	McClosky, Mis	2,985		280	x	x	12	0	0		x	x	L 7 MC	
	2 or more pays						2	0	0					
Totals for 1964			629,055	70,168	2,531,628		60,802	798	1,436	29,511				

TABLE 9 — ILLINOIS GAS POOL STATISTICS, 1964

## Explanation of Abbreviations and Symbols

Pool: N, North; S, South; E, East; W, West; C, Consolidated. Pools located in two or more counties have county names listed in order of discovery.

Age: Pc, Precambrian; Cam, Cambrian; Ord, Ordovician; St. P, St. Peter; Trn, Trenton; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen, Pennsylvanian.

Kind of rock in pay zone: D, dolomite; L, limestone; LS, sandy limestone; S, sandstone.

Abd: Pool abandoned.

Rev: Pool revived.

Structure: A, anticline; D, dome; F, faulting an important factor in gas accumulation; f, faulting a minor factor in gas accumulation; L, lens; M, monocline; R, reef; X, structure not determined. Combination of the letters are used where more than one factor applies.

x Correct figure not determinable.

\* Pool also produces oil.

†† Gas storage project. Amount of native gas produced not determinable.

\*\* Pilot storage in St. Peter.

Pool; county; location by township and range	Pay zone		Year of discovery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone		Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Kind of rock	Av. thickness (ft)	Zone and depth (ft)
Albion C*; Edwards, White; 3S; 10E	Pennsylvanian	1,490	1940	40	0	0	1	0	0	0	S	6	MF Dev 5,185
Ashmore S* ††; Clark, Coles; 12N; 10-11E, 14W	Unnamed, Pen Osage, Mis	430 385	1958 1958 1963	460 440 20	x x x	x x x	23 22 1	0 0 0	0 0 0	x	S	x x x	A Mis A X
Ava-Campbell Hill*; Jackson; 7S; 3-4W	Cypress, Mis	780	1916	370	0 Abd 1943; rev (oil) 1956; abd 1957	x	20	0	0	0	S	18	A Trn 3,582
Ayers Gas; Bond; 6N; 3W	Benoist, Mis	940	1922	325	0 Abd 1950	298.7	21	0	0	0	S	5	A Ord 3,044
Beaver Creek NE Gas ††; Bond; 4N; 2W	Benoist, Mis	1,126	1961	70	x	x	7	0	0	x	S	5	Sil 2,487
Beaver Creek S*; Bond, Clinton; 3-4N; 2W	Cypress, Mis	1,015	1946	240	0	0	6	0	0	0	S	20	A Dev 2,539
Beckemeyer Gas*; Clinton; 2N; 3W	Cypress, Mis	1,070	1956	80	0 Abd 1958	0	2	0	0	0	S	23	X Sil 2,730
Beverly Gas; Adams; 3S; 5W	Silurian, Sil	450	1957	80	0	0	2	0	0	0	L	6	X St.P 840
Boulder*; Clinton; 2-3N; 2W	Geneva, Dev	2,630	1941	320	0	0	4	0	1	0	D	7	R Trn 3,813
Boulder E*; Clinton; 3N; 1W	Devonian, Dev	2,840	1957	40	0 Abd 1957	0	1	0	0	0	L	12	X Sil 2,895
Carlinville*; Macoupin; 9N; 7W	Unnamed, Pen	365		60	0 Abd 1925; rev 1942	0	6	0	0	0	S	x	A Mis 1,380
Carlinville N*; Macoupin; 10N; 7W	Pottsville, Pen	440	1941	40	0 Abd 1954	0	1	0	0	0	S	10	X Trn 1,970
Carlyle*; Clinton; 2N; 3W	Cypress, Mis	1,015	1958	10	0	x	1	0	0	0	S	x	AL St.P 4,120
Casey*; Clark	Casey, Pen	440		x	0	x	x	0	0	0	S	x	AM
Claremont; Richland; 3N; 14W	Spar Mtn, Mis	3,200	1950	160	0 Abd 1952	0	1	0	0	0	L	5	MC Mis 3,340
Cooks Mills C* ††; Coles, Douglas; 14N; 7-8E	Cypress, Mis	1,600	1941	950 680	0 0	1,895.4 x	23 14	2 1	0 0	0	S	10	A Dev 2,888 A

TABLE 9 — ILLINOIS GAS POOL STATISTICS, 1964 — Continued

Pool; county; location by township and range	Pay zone		Year of discovery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone		Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Kind of rock	Av. thickness (ft)	
Cooks Mills C (cont.)	Aux Vases, Mis 1,800 Spar Mtn, Mis 1,765 2 or more pays			40 450	0 0 0	x x x	1 6 3	0 1 0	0 0 0	S S	8 15 A	
Dubois C*; Washington; 3S; 1-2W	Cypress, Mis 1,220		1939	400	0	0	10	0	0	S	10	AL Ord 4,217
Dudley*; Edgar; 14N; 13W	Pennsylvanian 300		1948	80	x	x	2	0	0	S	20	M St.P 2,997
Dudley W Gas; Edgar; 13N; 13W	Gas, Pen 380		1953	120	0	0	3	0	0	S	11	X Pen 428
Eden Gas; Randolph; 5S; 5W	Cypress, Mis 875		1962	1,000	0	0	15	10	0	S		Mis 2,377
Eldorado C*; Saline; 8S; 7E	Palestine, Mis 1,920 Waltersburg, Mis 2,055 80 Tar Springs, Mis 2,225 Hardinsburg, Mis 2,353 Cypress, Mis 2,460		1941	300 120	214.9 x	3,673.5 x	15 3	1 0	0	S		A Mis 3,606
Eldorado E*; Saline; 8S; 7E	Palestine, Mis 1,900 Tar Springs, Mis 2,135 2 or more pays		1953	120 80 40	10.9 x x	473.7 x x	2 1 4	0 0 0	0	S	30 20 AL	A Mis 3,102
Eldorado W*; Saline; 8S; 6E	Palestine, Mis 1,923		1960	10	0	0	1	0	0	S	27	X Mis 3,138
Fishhook Gas; Adams, Pike; 3-4S; 4-SW	Edgewood, S11 450		1955	7,260	0	0	69	0	0	L	5	X St.P 1,018
Freeburg* ++; St. Clair; 1-2S; 7W	Cypress, Mis 380		1956	700	x	x	29	0	0	S	30	X Ord 2,008
Gillespie-Benld (Gas) ++; Macoupin; 8N; 6W	Unnamed, Pen 540		1923	80	0 Abd 1935	135.8	5	0	0	S	x	A Pen 603
Gillespie W; Macoupin; 8N; 7W	Unnamed, Pen 525		1958	10	0	0	1	0	0	S	x	Pen 565
Grandview*; Edgar; 12-13N; 13W	Gas, Pen 400 Salem, Mis 570		1945	400 360 40	x x x	x x x	12 11 1	0 0 0	0	S	M ML 2 ML	Ord 2,694
Greenville Gas*; Bond; 5N; 3W	Lindley (1st & 2nd), Mis 925		1910	180	0 Abd 1923; rev 1957; abd 1958	990.0	4	0	0	S	x	A Trn 3,184
Harco, Harco E and Raleigh S*; Saline; 8S; 5E	X, Mis x		1954	x	174.7	2,039.3	x	0	0			Mis 3,107
Harrisburg*; Saline; 8S; 6E	Tar Springs, Mis 2,085		1952	160	0	93.2	1	0	0	S	6	X Mis 2,789
Herald C*; Gallatin, White; 6-8S; 9-10E	Anvil Rock, Pen 700 Pennsylvanian 1,750 Waltersburg, Mis 2,240 Tar Springs, Mis 2,315		1939	1,080 360 120 120 480	0 0 0 0 0	x x x x x	19 9 3 3 4	0 0 0 0 0	0	S	25 18 10 6	AL AL A AL
Inclose*; Clark, Edgar; 12N; 13-14W	Pennsylvanian 540		1941	320	0	x	8	0	0	S	12	X Mis 815
Jacksonville (Gas)*; Morgan; 15N; 9W	Gas, Pen, Mis 330		1910	1,320	0 Abd 1939	x	45	0	0	LS	5	ML Ord 1,390
Kansas Gas; Edgar; 13N; 14W	Unnamed, Pen 410		1958	30	0	x	3	0	0	S	x	X Mis 778



Livingston I; Madison; 6N; 6W	Pennsylvanian	540	1951	60		0	0	0	0	3	0	0	S	12	X	Mis	815
Livingston S*; Madison; 6N; 6W	Pennsylvanian	530	1950	40		0	0	0	0	1	0	0	S	2	ML	Mis	845
Louden*; Fayette; 7N; 3E	Burtschi, Pen Tar Springs, Mis	1,000 1,170	1937	1,760 320 1,440		0	x x x	14 5 9	0	0	0	0	S	20	AL	St.P	4,680
Main C*; Crawford, Lawrence; 5-8N; 10-14W	Robinson, Pen Hardinsburg, Mis Cypress, Mis Aux Vases, Mis	241 1,000 1,075 1,425 1,527	1906	x x 160 320 50		x x x x	x x x x	2 2 1 0 0	1	x			S	x	M	St.P	4,654
Marissa W (Gas)*; St. Clair; 3S; 7W	Cypress, Mis	241	1960	60		0	x	6	0	0	0	0	S	25		Ord	2,413
Mt. Olive*; Montgomery; 8N; 5W	Pottsville, Pen	605	1942	100		x	x	4	0	0	0	1	S	6	A	Dev	1,819
New Athens Gas; St. Clair; 2S; 7W	Cypress, Mis	250	1961	160		0	0	4	1	0	0	0	S	13		Mis	311
Omaha*; Gallatin; 7-8S; 8E	Tar Springs, Mis	1,900	1940	120		20.8	51.2	3	0	0	0	1	S	15	D	Mis	2,941
Panama*; Bond, Montgomery; 7N; 3-4W	Pennsylvanian Benoist, Mis	575 865	1940	280 160 120		0 0 0	x x x	7 4 3	0	0	0	0	S	30	A	Dev	2,016
Pittsburg N Gas*; Williamson; 8S; 3E	Hardinsburg, Mis	2,151	1962	80		0	0	2	1	0	0	0	S	6		Mis	2,836
Pittsfield (Gas); Pike; 5S; 4-5W	Niagaran, Sil	265	1886	8,960		0	x	68	0	0	0	0	L	10	A	Pc	2,226
Plainview*; Macoupin; 8N; 8W	Pennsylvanian	441	1961	10		0	0	1	0	0	0	0	S	20	X	Pen	462
Prentice*; Morgan; 16N; 8W	Pennsylvanian	260	1953	290		0	0	7	0	0	0	0	S	15	X	Ord	1,513
Raleigh*; Saline; 8S; 6E	Waltersburg, Mis	2,307	1962	40		59.7	84.7	1	0	0	0	1	S	7			
Redmon N; Edgar; 14N; 13W	Pennsylvanian	365	1955	40		0	0	1	0	0	0	0	S	3	X	Mis	450
Richwood (Gas); Crawford; 6N; 11W	Pennsylvanian	612	1959	20		0	28.6	3	0	0	0	0	S	9	X	Pen	1,001
Roland C*; Gallatin; 7S; 8E	Waltersburg, Mis	2,150	1940	160		0	0	1	0	0	0	0	S	19	AL	Dev	5,225
Russellville Gas*; Lawrence; 4-5N; 10-11W	Bridgeport, Pen Buchanan, Pen	760 1,100	1937	1,800 x x		0 0 0	7,081.6 x x	60 18 42	0	0	0	0		15 12	AL AL	Dev	3,133
St. Libory; St. Clair; 1S; 6W	Silurian	1,834	1964	120		0	0	3	0	0	0	0	L	113		Sil	1,997
Spanish Needle Creek (Gas); Macoupin; 9N; 7W	Unnamed, Pen	305	1915	80		0	14.4	7	0	0	0	0	S	x	D	Trn	2,070
Sparta*; Randolph; 4-5S; 5-6W	Cypress, Mis	850	1888	160		0	x	18	0	0	0	0	S	7	D	Trn	3,130
Staunton (Gas)*; Macoupin; 7N; 7W	Unnamed, Pen	460	1916	400		0	1,050.0	18	0	0	0	0	S	x	A	Ord	2,371
Storms C*; White; 5-6S; 9-10E	Gas, Pen Waltersburg, Mis	1,090 2,230	1939	440 170 280		0 0 0	x x x	9 2 7	0	1	0	0	S	40 15	A AF AL	Mis	3,267
Stubblefield S*; Bond; 4N; 4W	Cypress, Mis	920	1962	80		0	0	2	0	0	0	0	S	x	X		
Sumner S (Gas); Lawrence; 3N; 13W	Aux Vases, Mis	2,566	1959	40		0	0	2	1	0	0	0	S	10		Mis	2,791
Tamaroa*; Perry; 4S; 1W	Cypress, Mis	1,120	1942	20		0	0	2	0	0	0	0	S	13	AL	Mis	1,630

TABLE 9 - ILLINOIS GAS POOL STATISTICS, 1964 - Continued

Pool; county; location by township and range	Pay zone		Year of discovery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone		Deepest test
	Name and age	Depth (ft)			During 1964	To end of 1964	Completed to end of 1964	Completed in 1964	Abandoned 1964	Producing end of year	Kind of rock	Av. thickness (ft)	Zone and depth (ft)
Tilden N Gas ++; Washington, St. Clair; 3S; 5-6W	Cypress, Mis	780	1961	x	x	x	x	x	x	x	S	25	Ord 2,810
Waggoner*; Montgomery; 11N; 5W	Pottsville, Pen	523	1959	10	0	0	1	0	0	0	S	2	Dev 1,893
Wamac E*; Marion; 1N; 1E	Petro, Pen	856	1958	90	x	x	9	0	0	0	S	x	Dev 3,405
Waverly* **; Morgan; 13N; 8W	Pennsylvanian	250	1946	900	0	0	8	0	0	0	S	A	Ord 2,070
	Devonian, Dev	1,000		160	0	0	1	0	0		L	13	AL
	Trenton, Ord	1,513	1963	700	0	0	6	0	0		L	10	A
	Pennsylvanian	400		40	0	0	1	0	0		L	x	X
Westfield E*; Clark; 12N; 14W	Pennsylvanian		1947	50	0	0	2	0	0	0	S	11	ML Pen 678
Total for Illinois (estimated)				33,795	481.0	18,849.2	655	21	3	23			

## PART II. WATERFLOOD OPERATIONS

T. F. Lawry and Richard F. Mast

### INTRODUCTION

Part II presents the sixteenth review of waterflood operations in the secondary recovery of oil in Illinois.

In 1964, secondary recovery projects produced 47,977,000 barrels of oil. Of this total, 46,754,000 barrels were reported by operators; the remaining 1,223,000 barrels were estimated for operators who had not reported 1964 production in time to be included in this report.

The cooperation of the operators and producers in compiling and reporting field data is gratefully acknowledged.

A generalized stratigraphic column of zones being flooded in Illinois is presented below. Because individual projects vary in size, no particular importance should be attached to the total number of projects in which each pay was being subjected to water injection.

	Number of waterfloods reported in 1964
Pennsylvanian	
Westfield "Gas" Sand	0
Casey "Gas" Sand	0
Siggins	4
Bellair "500"	10
Bridgeport	21
Claypool	3
Robinson	80
Petro	3
Casey	11
Partlow	7
Dagley	2
Biehl	6
Buchanan	2
Jordan	8
Pennsylvanian (unclassified)	24
Mississippian	
Kinkaid	0
Degonia	4
Clore	4
Palestine	2
Menard	0
Waltersburg	35
Vienna	0
Tar Springs	49
Glen Dean	0
Hardinsburg	8
Golconda (Jackson)	21

Number of  
waterfloods  
reported in 1964

Cypress (Kirkwood, Weiler)	281
Paint Creek (Bethel)	56
Yankeetown (Benoist)	106
Renault	4
Aux Vases	210
Ste. Genevieve	
Ohara	16
Spar Mountain	53
McClosky	81
St. Louis	0
Salem	0
Harrodsburg (Warsaw)	0
Carper	1
Mississippian (unclassified)	1
Devonian	
Unclassified	4
Silurian	
Unclassified	4
Ordovician	
Trenton	3

### SUMMARY OF WATERFLOOD OPERATIONS

The 47,977,000 barrels of oil from controlled waterfloods represent 68.4 percent of the 70,168,000 barrels of oil produced in Illinois during 1964. Dump floods accounted for an estimated 660,000 barrels, and pressure maintenance projects reported 885,600 barrels of oil.

At the end of 1964, there were reported 849 waterflood projects in operation. Of this total, 100 were reported to the Survey for the first time, although 23 of them were started in earlier years. Projects reported in earlier years and still active numbered 749. Abandonments during 1964 or confirmed during the year were 36. Area added by new projects or extensions to old projects brought 18,919 acres under waterflood during the year. Total area under waterflood at the end of 1964, including pressure maintenance and abandoned waterfloods, was 285,641 acres. This is equal to 45.4 percent of the 629,055 acres currently deemed oil productive in Illinois.

Table 10, Project Numbers by County and Summary of Waterflood Projects in 1964, contains a list of counties in Illinois that were oil productive.

The numerical sequence by which waterflood projects are catalogued and the total number of projects in each county is given. This table serves as an index to or as a guide for the tabulation of information in the tables that follow.

Table 11, Illinois Waterflood Projects Initiated Prior to 1964, presents water injection, oil production, and produced water data, and also some operational information.

Table 12, Illinois Waterflood Projects Initiated During 1964, lists those waterfloods reported for the first time during 1964. This table contains some reservoir data that will be omitted in subsequent years.

Table 13, Illinois Pressure Maintenance Projects Using Water Injection During 1964, lists those projects in which an attempt has been made to recover maximum oil before bottom-hole pressure was depleted during the primary recovery life of the project area.

Table 14, Illinois Waterflood Projects Reported Abandoned, is a tabulation of projects that have been discontinued either because of failure of the area to respond favorably to water injection or because the project reached an economic limit.

Table 15, Summary of Waterflood Statistics, 1949-1964, is a review of pertinent summary totals on waterflood operations in Illinois since data were first recorded by the Survey.

Figure 4 (p. 106-115) shows the oil and gas fields in Illinois and the areas of waterflood and pressure maintenance operations during 1964.

interest shown by many operators in the use of thermal methods for recovery of oil. Purchases of portable steam generators by several operators indicate a willingness to invest fairly large capital in attempting to recover additional oil. Numerous requests from operators were received by the Survey for assistance with tertiary recovery processes and methods. Although most operations are being conducted with as much secrecy and privacy as possible, a rather complete disclosure by one company of its in-situ combustion experiment in the State was encouraging from both the standpoint of favorable results attained and the fact that the data was reported.

At this time, no particular tertiary recovery method or procedure appears to have an advantage over another. Most of the work to date has been entirely experimental, but one need only recall the comparable parallel of waterflooding in its infancy to realize that break-throughs come slowly and only as a result of trial and error by many operators.

## CONCLUSIONS

Production of oil by secondary recovery methods using water injection was the most important factor in the oil industry in Illinois during 1964. While secondary recovery methods now appear to be the most efficient means for recovery of the maximum economic increments of petroleum from most Illinois oil reservoirs, experimental research in laboratory work and in field trials seems to be pointing toward major break-throughs that will permit even greater recovery of petroleum.

Interest in more exotic methods of recovery including the use of thermal energy, miscible displacement with other, more efficient hydrocarbons, and the almost limitless spectrum of chemical supplements to water predicts a time when water might be used solely as a carrier of energy for more efficient media in the optimum recovery of petroleum. Of major importance is the continued

## ABBREVIATIONS

The following abbreviations have been used in tables 10 through 15:

abd - abandoned  
adj - adjusted  
cum - cumulative  
est - estimated  
excl - excluded  
form - formerly  
incl - include  
inj - injection  
op - operator  
prev - previous  
prim - primary  
prod - production  
subj - subject  
temp - temporary



## WATERFLOOD OPERATIONS

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TABLE 10 - PROJECT NUMBERS BY COUNTY AND SUMMARY OF WATERFLOOD PROJECTS IN 1964

No.	County	Active water floods	Active pressure mainte- nance	Aban- doned	Total
000	Bond	2	0	5	6
100	Christian	3	0	1	4
200	Clark	16	0	13	29
300	Clay	33	0	11	44
400	Clinton	13	3	2	18
500	Coles	18	0	1	19
600	Crawford	84	0	23	107
700	Cumberland	4	0	3	7
800	Douglas	4	0	0	4
900	Edgar	0	0	0	0
1000	Edwards	24	1	4	29
1100	Effingham	8	0	0	8
1200	Fayette	41	1	3	45
1300	Franklin	17	1	2	20
1400	Gallatin	26	1	8	35
1500	Hamilton	41	0	9	50
1600	Hancock	0	0	0	0
1700	Hardin	0	0	0	0
1800	Jackson	0	0	0	0
1900	Jasper	13	0	4	17
2000	Jefferson	16	1	5	22
2100	Johnson	0	0	0	0
2200	Lawrence	91	0	5	96
2300	Macon	0	0	1	1
2400	Macoupin	2	0	0	2
2500	Madison	3	0	1	4
2600	Marion	23	0	2	25
2700	McDonough	0	0	0	0
2800	Monroe	0	0	0	0
2900	Montgomery	1	0	0	1
3000	Moultrie	0	0	0	0
3100	Perry	2	0	0	2
3200	Pope	0	0	0	0
3300	Randolph	0	0	0	0
3400	Richland	18	0	13	31
3500	St. Clair	0	0	0	0
3600	Saline	15	0	3	18
3700	Sangamon	0	0	0	0
3800	Shelby	2	0	0	2
3850	Wabash	101	0	24	125
4000	Washington	8	0	0	8
4100	Wayne	63	0	18	81
4200	White	158	2	33	193
4500	Williamson	0	0	0	0
Totals		849	10	194	1,053

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
1417	Ab Lake W	Coy	Gallatin	Ab Lake W U	7-59	Waltersburg	30,31-8S-10E
1421	Ab Lake W	Coy	Gallatin	Ab Lake W U	7-59	Aux Vases	30,31-8S-10E
4101	Aden C	Texaco	Wayne	Aden S	8-46	Aux Vases	8,9,16,17,20-3S-7E
4102	Aden C	Texaco	Wayne	Aden S	8-46	McClosky	8,9,16,17,20-3S-7E
4158	Aden C	Whaley	Wayne	S. W. Fairfield U	3-62	Aux Vases	22-2S-7E
1311	Akin	C. E. Brehm	Franklin	Akin SE U	3-61	Aux Vases	2S-6S-4E
1317	Akin	Stewart Oil Co.	Franklin	U. S. Coal & Coke	11-62	Cypress	2S-6S-4E
1000	Albion C	Bayview	Edwards	Biehl U 2	12-50	Biehl	14-3S-10E
4200	Albion C	Bayview	White	Biehl U 1	8-49	Biehl	22,23-3S-10E
1001	Albion C	Continental	Edwards	S. Albion U, U. Biehl	12-55	U. Biehl	1,2-3S-10E
1011	Albion C	Continental	Edwards	S. Albion U, L. Biehl	4-51	L. Biehl	35,36-2S-10E; 1-3S-10E
1026	Albion C	N. V. Duncan	Edwards	Mossbarger*	7-62	Benoist	15-3S-10E
1002	Albion C	Jarvis Bros & Marcell	Edwards	H. Wick W	7-51	McClosky	24-2S-10E
1003	Albion C	Superior	Edwards	S. Albion, S.R.P. U 1	1-55	Biehl	25,36-2S-10E;
						Waltersburg	30,31-2S-11E
1004	Albion C	Superior	Edwards	S. Albion U 2	8-56	Aux Vases	1,2,11,12-3S-10E
1005	Albion C	Superior	Edwards	S. Albion U 2	8-56	Biehl	1,2,11,12-3S-10E
1012	Albion C	Superior	Edwards	S. Albion U 2	7-46	Bridgeport	1,2,11,12-3S-10E
1018	Albion C	Superior	Edwards	E. Albion U	11-59	Aux Vases	36-1S-10E; 31-1S-11E
1024	Albion C	Superior	Edwards	S. Albion U 2	6-60	Waltersburg	1,2,11,12-3S-10E
1006	Albion C	Tidewater	Edwards	S. W. Albion Sand U	1-55	Biehl	2,11,14-3S-10E
4353	Albion C	P. O. Wall	White	Grayville W U	5-62	Cypress	22-3S-10E
3950	Allendale	Ashland	Wabash	Alka LSE	9-55	Biehl	13-1N-12W
3969	Allendale	Ashland	Wabash	Friendsville Coop	10-60	Biehl	30-1N-12W
3901	Allendale	W. H. Bass*	Wabash	White	6-52	Biehl	22-1N-12W
3905	Allendale	Forest	Wabash	Allendale (19)	6-55	Biehl	3,4,9,10-1N-12W
						Jordan	
3900	Allendale	C. A. Hamman	Wabash	Gilliate Comm	11-54	Biehl	13-1N-12W
3906	Allendale	Illinois Oil Co.	Wabash	Young	1-58	Biehl	1-1N-12W
						Benoist	
3996	Allendale	Illinois Oil Co.	Wabash	Sparks-Peter U*	10-62	Biehl	36-2N-12W
3964	Allendale	Indiana Farm Bureau	Wabash	Allendale U	7-59	Benoist	13-1N-12W
3992	Allendale	Indiana Farm Bureau	Wabash	Keyser B	7-59	Biehl	13-1N-12W
3951	Allendale	L. & M.	Wabash	Allendale W U	4-58	Biehl	8-1N-12W
3993	Allendale	Royalco	Wabash	Stillwell-Courter U	1-62	Walt & Cyp	21,22-1N-12W
2231	Allendale	Wayne Smith	Lawrence	Sand Barren U 1*	9-57	Biehl & Jord	26-2N-12W
2232	Allendale	Wayne Smith	Lawrence	Sand Barren U 2*	6-58	Biehl & Jord	23,26-2N-12W
3908	Allendale	Wayne Smith	Lawrence & Wab	Shaw-Smith-Nigh*	9-57	Biehl & Jord	26,35-2N-12W
3903	Allendale	Wayne Smith	Wabash	Taylor-Wheatley*	6-57	Biehl & Jord	7,18-1N-12W
3966	Allendale	Tamarack	Wabash	Cogan	6-60	Biehl & Jord	35-2N-12W
3978	Allendale	Tamarack	Wabash	Cogan	9-61	Cypress	35-2N-12W
3899	Allendale	Tamarack	Wabash	A. Hershey	7-62	Cypress	34-2N-12W
3898	Allendale	Tamarack	Wabash	Hershey-Cogan	7-62	Cypress	35-2N-12W
3999	Allendale	Jack Keneipp	Wabash	Walser*	7-62	Tar Springs	2-1N-12W
3973	Allendale	Universal Operating	Wabash	S. Allendale U	3-61	Biehl	15-1N-12W
3909	Allendale	Zink Oil Co.	Wabash	Allendale U*	9-53	Biehl & Jord	3-1N-12W
100	Assumption C	Continental	Christian	Benoist	7-50	Benoist	3,4,9,10,15,16,21-13N-1E
101	Assumption C	Continental	Christian	Devonian	5-55	Devonian	3,9,10-13N-1E
102	Assumption C	Continental	Christian	Rosiclare	6-55	Spar Mtn	3,4,9,10-13N-1E
4170	Barnhill	Ashland	Wayne	Boze U	10-63	Aux Vases	27,28,34-2S-8E
4171	Barnhill	Ashland	Wayne	Caldwell U	10-63	Aux Vases	34-2S-8E
4104	Barnhill	Willets & Paul	Wayne	Barnhill U	10-56	Aux Vases	27,28-2S-8E
400	Bartelso	T. R. Kerwin*	Clinton	Belle Oil	4-52	Cypress	4-1N-3W
401	Bartelso	Robben*	Clinton	Robben U	11-53	Cypress	4-1N-3W
402	Bartelso	H. S. Woodard	Clinton	H. S. Woodard, Trustee	1-54	Cypress	5,8-1N-3W
4005	Beaucoup S	Shell	Washington	Beaucoup S U	11-60	Benoist	33,34-2S-2W
409	Beaver Creek S	T. M. Conrey, Jr.	Clinton	Reinkensmeyer	4-59	Benoist	14-3N-3W
600	Bellair	K-Loo Oil Co.	Crawford	Bellair (11)	7-48	Bellair "500"	2,11,12-8N-14W
601	Bellair	Pure	Crawford	Fulton	7-48	Bellair "500"	1,2,11,12-8N-14W
1300	Benton	Shell	Franklin	Benton U	11-49	Tar Springs	23,24,25,26,35,36-6S-2E;
							18,30,31-6S-3E
1314	Benton	Shell	Franklin	Shell-Benton Deep	6-62	L. Ohara,	25,36-7S-2E
						A.V. & McCl	
411	Boulder	Texaco	Clinton	Boulder Benoist Sand U*	9-60	Benoist	2-2N-2W; 35,36-3N-2W
800	Bourbon C	M. H. Richardson*	Douglas			Spar Mtn	2,11,12-15N-7E
2000	Boyd	Superior	Jefferson	Boyd Field U	8-54	Aux Vases	18,19,20,30-1S-2E;
							13,24,25-1S-1E
2001	Boyd	Superior	Jefferson	Boyd Field U	1-55	Bethel	18,19,20,30-1S-2E;
							13,24,25-1S-1E
2615	Brown	E. Bierman	Marion		7-60	Cypress	16-1N-1E
1021	Browns	Superior	Edwards & Wabash	Browns U	11-59	Cypress	28,33-1S-14W
1022	Browns	Superior	Edwards & Wabash	Browns U	11-59	Bethel	28,33-1S-14W
1023	Browns	Superior	Edwards & Wabash	Browns U	2-60	Weiler	28,33-1S-14W
3894	Browns	Tartan Oil Co.	Wabash	Browns U*	10-62	Tar Springs	33-1S-14W
3914	Browns E	E. H. Morris	Wabash	S. Bellmont U	4-56	Cypress	11,14-2S-14W
1522	Bungay C	Marathon	Hamilton	Bungay U	10-61	Aux Vases	26,27,34-4S-7E
1500	Bungay C	Texaco	Hamilton	Blairsville U*	6-48	Aux Vases	16,17,20,21-4S-7E
1530	Bungay C	Texaco	Hamilton	J. A. Lynch	9-61	Aux Vases	16-4S-7E

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
122 4	1,091 219	4.5* *	184* *	40* *	526* *	6.6 2.1	1,350 1,430	2,025 2,750	20 20	* Incl. 1421. Abd. 6-30-64. * Incl. with 1417. Abd. 6-30-64.	1417 1421
221 168 156 309 72	5,980 6,400 445 788 144	16.2 13.9 13.1 42.0 7.5	1,037 648 42 77* 8	343* * 55 108 57	8,155* * 108 113 1,912* 1,557*	5.0 9.8 25.1 6.0 6.5	1,400 1,400 1,750 1,040	3,200 3,350 3,250 3,120	10 10 10 10 10	* Incl. 4102. * Incl. with 4101. * Incl. prim. prod. since 10-61. * Excl. 1964. * Excl. 1964.	4101 4102 4158 1311 1317
330 113 177 72 659	4,247* 7,260 1,864 2,347 15 655* 4,511	 14.0 6.2 2.1  196.8	504 1,083* 398 661* 0 54 1,482	 139 42 72 183	1,912* 1,557* 960 1,907 0 362 1,498	8.5 8.6 26.3 19.7 13.3	 1,250 1,250 775 1,500	1,450 1,900 2,075 2,080 3,150 2,025 2,400	10 10 20 20 20 20 20	* Incl. 1964. * Incl. 1964. * Incl. prim. prod. since 4-51. * No data 1964. * Excl. 1-55 to 12-56.	1000 4200 1001 1011 1026 1002 1003
88 344 590 142 306 1,173 315 166 574	1,218 3,073 4,856 1,445 1,195 8,385 605 800 1,851	113.0 * * 22.2 * 70.3 13.5 6.7 36.1	1,414* * * 166 * 1,291* 20 94* 173 <sup>†</sup>	1,188 * * 36 * 722 19 68 505	8,696 * * 378 * 4,780 137 * * 1,571	1.8 14.9 26.4 4.5 19.9 11.0 23.9 30.3 104.8	1,550 1,450 1,570 1,700 1,550 1,140 1,000 480 650	3,050 2,050 1,870 3,000 2,400 1,850 2,850 1,475 1,600	20 * * * * 20 10 * 		



Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
3400	Calhoun C	Ashland	Richland	Calhoun*	9-51	McClosky	13-2N-9E; 7,18-2N-10E
3401	Calhoun C	S. Tipps	Richland	Bolander U*	6-50	McClosky	6,7-2N-10E
3423	Calhoun E	Alva C. Davis	Richland	Slunaker U*	4-62	McClosky	7-2N-11E; 12-2N-10E
226	Casey	K. E. Bush	Clark	E. A. Shawver	6-61	Carper	23,24-10N-14W
202	Casey	D. W. Franchot	Clark	N. Casey	12-53	Casey	33,34-11N-14W
230	Casey	R. B. & Associates	Clark	Ross Stratton* & Huffman	1963	Casey	26,35-10N-14W
4203	Centerville E	Consolidated O. & C.	White	E. Centerville U*	3-56	Tar Springs Cypress Aux Vases Benoist	18-4S-10E
4379	Centerville E	Culf Oil Corporation	White	E. Centerville U	9-63 9-63	Hardinsburg McCl, T.S., Cyp, Ben & A.V.	7,8,17,18-4S-10E
4376	Centerville E	Mobil Oil	White	Jones Estate	9-63	Tar Springs	7-4S-10E
403	Centralia	W. O. Morgan	Clinton	Centralia Field*	10-55	Benoist	35-2N-1W
412	Centralia	F. Seip	Clinton	Rothmeyer, Buehler & Coe*	11-60	Cypress	13-1N-1W
404	Centralia	Shell	Clinton	Centralia U	5-56	U. Cypress L. Cypress Benoist	1,2,12-1N-1W 35,36-2N-1W
801	Chesterville E	T. W. George	Douglas	Arcola U	9-61	Spar Mtn	5,6-14N-8E; 31-15N-8E
300	Clay City C	Continental	Clay	N. Clay City U	6-55	McClosky	5,8-3N-8E
3403	Clay City C	Continental	Richland	E. Noble U	5-55	Spar Mtn	10,11-3N-9E
4141	Clay City C	Cullum & Lawhead	Wayne	Miller-Thompson- Garrison U	3-60	Aux Vases	27-2N-7E
4147	Clay City C	Cullum & Lawhead	Wayne	Robertson-Bing- Crews U	1-61	Aux Vases	27,28-1S-8E
4156	Clay City C	Cullum & Lawhead	Wayne	Beard-Borah-Wilson U	7-62	Aux Vases	3,4,9,10-1S-8E
4157	Clay City C	R. C. Davoust	Wayne	S.W. Mt. Erie U	10-62	Aux Vases	4-1S-8E
4140	Clay City C	C. H. Dollerhide	Wayne	Barnard-Holman-Liston U	12-60	Aux Vases	10-1S-7E
1913	Clay City C	Doran	Jasper	Bergbower	10-60	McClosky	33-7N-10E; 4-6N-10E
4146	Clay City C	F. & W.	Wayne	Mt. Erie U	10-60	Aux Vases	33,34,35-1N-8E
4136	Clay City C	Farrar	Wayne	Blessing-Chrisman U*	3-59	Aux Vases	31,32-1N-8E
4110	Clay City C	General American	Wayne	Covington U	6-55	Ste. Gen	25-1S-6E; 19,20,28,29,30, 31,32,33-1S-7E
1915	Clay City C	Culf Oil	Jasper	Della Harvey	3-62	Spar Mtn	12-5N-9E
3419	Clay City C	B. Kidd	Richland	Wakefield-Harrell U	7-60	Cypress	26-4N-9E
3421	Clay City C	McDowell & Murvin	Richland	Wakefield Pool U*	10-60	Cypress	24-4N-9E
4159	Clay City C	Bernard Podolsky	Wayne	N.W. Fairfield U	10-62	Ohara	26,35-1S-7E
302	Clay City C	Pure	Clay & Wayne	Banker School C	9-56	Cypress	15,21,22,28-2N-8E
335	Clay City C	Pure	Clay	Weiler School C	12-61	Cyp & McCl	33,34-3N-8E; 3,4-2N-8E
1910	Clay City C	Pure	Jasper	E. Newton U	10-60	McClosky	27,34-7N-10E
3404	Clay City C	Pure	Richland	Old Noble	8-54	McClosky	33-4N-9E; 4,5,8,9-3N-9E
3405	Clay City C	Pure	Richland	S. Noble	8-57	McClosky	30,31-3N-9E; 25,36-3N-8E
3406	Clay City C	Pure	Richland & Clay	S.W. Noble U	8-57	Spar Mtn	11,12-2N-8E
3418	Clay City C	Pure	Richland	Wakefield U	5-59	Cypress	13,14,22,23,24,25,26,27-4N-9E
3425	Clay City C	Pure	Clay & Richland	Cuyot	12-63	Cypress Aux Vases McClosky	1,2,3-2N-8E 35,36-3N-8E
4112	Clay City C	Pure	Wayne	Jordan School U	9-54	Aux Vases	3-1N-7E; 27,34,35-2N-7E
4113	Clay City C	Pure	Wayne	N.E. Jordan School U	10-56	Aux Vases	25,26,35,36-2N-7E
4114	Clay City C	Pure	Wayne	Van Fossan U	1-53	McClosky	14,15,22,23,26,27-1N-8E
4131	Clay City C	Pure	Wayne	S.E. Jordan School U	5-58	Aux Vases	2,11-1N-7E
4142	Clay City C	Pure	Wayne	Elm River U	11-58	A.V. & McCl	30,31-2N-8E
4143	Clay City C	Pure	Wayne	Feller C	5-59	A.V. & McCl	5,6,7,8-1N-8E
4152	Clay City C	Pure	Wayne	Oregon School U	6-61	Aux Vases	20,21,28,29-1S-8E
4153	Clay City C	Pure	Wayne	S.E. Enterprise	8-61	Aux Vases	24-1N-8E
4164	Clay City	Pure	Wayne	E. Jordan School U	7-63	Aux Vases McClosky	1-1N-7E; 6-1N-8E; 35,36-2N-7E
4173	Clay City	J. R. Randolph	Wayne	I. Bothwell	7-63	McClosky	24-2N-7E
1901	Clay City C	Robinson & Puckett	Jasper	N.E. McClosky U 1	5-53	McClosky	13,14,24-7N-10E
1902	Clay City C	Robinson & Puckett	Jasper	S.W. McClosky U 2	5-53	McClosky	23,26-7N-10E
4117	Clay City C	Shakespeare	Wayne	E. Banker School	1-57	Cypress	22-2N-8E
4118	Clay City C	Shakespeare	Wayne	E. Geff U	1-57	Aux Vases	12,13-1S-7E; 7,18-1S-8E
4165	Clay City C	Tamarack	Wayne	W. Geff U	10-63	McCl, Spar Mtn	28,33-1N-7E; 4-1S-7E
4166	Clay City C	Tamarack	Wayne	W. Geff U	12-63	Aux Vases	28,33-1N-7E; 3,4-1S-7E
4144	Clay City C	Tipps Casing Pulling Co	Wayne	W. Geff U*	11-60	Aux Vases	16,17,21-1S-7E
4151	Clay City C	H. H. Weinert Estate	Wayne	S. Boyleston U	4-61	Aux Vases	3,4,9,10-2S-7E
4162	Clay City C	H. H. Weinert	Wayne	N. Boyleston U	2-62	McClosky	33,34-1S-7E; 3,4-2S-7E
1908	Clay City C	Zanetis	Jasper	P. Kelley 3	11-58	Spar Mtn	1-5N-9E
1909	Clay City C	Zanetis	Jasper	C. Harvey 2	11-58	Spar Mtn	12-5N-9E
4281	Concord C	Ashland	White	Concord U	9-59	Tar Springs	28-6S-10E
4309	Concord C	Humble	White	Concord Coop	12-60	Tar Springs Aux Vases	28-6S-10E
4299	Concord C	Livingston Oil Co.	White	Concord	8-60	Tar Springs	21,28-6S-10E



Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
170 <sup>†</sup>	3,032	1.5	157 <sup>†</sup>			39.4	†	3,150		* Proj. shut down 8-14-64. †Est.; dump flood. *Incl. prim. prod.	3400
	2,175		235		1,681			3,130	20	* No data since 1960.	3401
	33		1		8			3,261	20	* No data since 1962.	3423
10	49	5.9	106*	18	70	2.2	200	1,345		* Incl. prim. prod.	226
245	2,173	5.9	29			2.2	230	290	4.4		202
								480	10	* Not in op. for 7 mos.of 1964. * No data 1963-1964.	230
840	4,542	102.8	621	629	2,098	7.3		2,460	10	* Incl. 4204, 4297.	4203
								2,845			
								3,085			
3,509	7,050	685.5	917	1,570	2,013	2.8	1,700	2,460	10		4379
								2,850			
								2,980			
								3,080			
158	212	24.6	25	1	1	13.5		2,480	10		4376
	36		0					1,368		* No data since 1960.	403
	235		31 <sup>†</sup>		291			1,200	10	* No data 1964. †Incl. prim. prod.	412
5,921	50,115	324.9	9,356	5,684	33,464	4.2	268	1,200	20		404
								1,350			
678	1,913	97.6	200	203	333	15.4	900	1,725	10		801
42	1,194	4.9	115*	25	509	31.2	0	3,010	20	* Incl. prim. prod. since 6-55.	300
147	2,906	9.9	229	118	1,315	18.3	500	2,950	20		3403
123	563	5.2	33	48	189	9.3	2,175	3,130	16		4141
251	698	12.0	31	76	126	14.3	1,124	3,130			4147
131	288	14.1	17	2	2	12.8	2,350	3,084			4156
125	222	3.4	6	29	48	17.0	1,105	3,040	20		4157
43	132	5.7	19	14	35	4.5	840	3,135	10		4140
26	141	3.5	17	0	0	4.4	0	2,850	20		1913
678	2,774	150.0	367	203	321	8.4	1,800	3,000			4146
48	0.5		12			6.7	1,500	3,053	10	* Purchased from Slagter. No data 12-60 to 6-64.	4136
1,821	24,420	43.2	1,595	1,046	12,278	15.5	862	3,200	40		4110
124	313	13.5	21	8	16	34.0	700	2,960			1915
183	1,163	23.0	318	296	1,002	3.6	753	2,540	20		3419
	383		116 <sup>†</sup>					2,535	40	* No data since 1961. †Incl. prim. prod.	3421
241	585	31.6	48	36	70	22.8	1,400	3,200			4159
243	2,543	38.4	624	68	332	4.9	1,080	2,639	50 & 80		302
854	2,483	130.7	465	436	782	9.8	1,000	2,596	40		335
358	1,221	24.3	60	46	351	24.5		2,670			1910
2,861	50,238	203.1	3,715	2,861	21,868	78.3		2,930			3404
120	3,324	7.4	120	120	1,054	21.8		2,975			3405
*		7.9	177	155	931			2,984		* Unknown.	3406
3,745	16,211	348.7	2,752*	2,989	9,520	6.0	800	2,545	20	* Incl Pilot flood prod. since 4-50.	3418
369	369	25.4	26	52	56	3.7		2,620			3425
								2,940			
								3,000			
1,864	15,341	92.3	2,065	1,457	8,848	9.8	600	2,950	20		4112
1,268	9,477	55.6	1,196	1,095	5,238	10.5	700	2,950	20	Prev. subj. gas inj.	4113
151	11,442	32.0	590	151	4,114	2.2	600	3,070	80		4114
1,353	7,802	96.4	1,202	987	3,502	10.4	425	2,930	20		4131
326	2,687	42.2	325	254	966	8.5	800	2,950			4142
772	5,033	170.3	979	619	2,500	5.3	800	2,950	40 & 20		4143
598	2,261	31.9	147	323	942	7.3	800	3,186	20		4152
178	464	3.5	7	20	23	20.3	1,400	2,992			4153
1,522	2,298	134.2	150	245	297	7.7	500	2,950			4164
								3,030			
18	24	4.0	9	12	18		0	2,990	40	* Secondary oil due to adjacent flood - not to inj.	4173
14	1,220	6.5	268			8.2	950	2,530	20		1901
53	3,181	10.3	618			5.9	1,025	2,580	20		1902
2*	552	6.2	93	25	319	4.6	1,028	2,639		* Curtailed.	4117
1,307	8,046	66.8	903	832	3,037	8.7	1,800	3,065	20		4118
698	790	45.3*	76*	186*	282*	15.3	142	3,200		* Incl. 4166.	4165
173	184	*	*	*	*	19.8	720	3,080		* Incl. with 4165.	4166
	1,690		105		1,137			3,150	10	* No data 1964.	4144
362	704	22.4	50								4151
1,019	2,067	70.2	189						10		4162
0*	0*	18.3*	71*	55	163	0.0		2,941	20	* Waterflood prod. due to inj. on adj. leases.	1908
99	382	0.0	2			45.0		2,954	20		1909
175	905	8.5	241*	49	334 <sup>†</sup>	16.0	1,400	2,279	10	* Incl. prim. prod. since 9-59. †Since 1-61.	4281
199	901	10.7	134	74	235	8.7	980	2,260	20		4309
								2,890			
805	2,707*	30.7 <sup>†</sup>	370			11.3	900	2,260	10	* Op. adj. †Estimated.	4299

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
4331	Concord C	Livingston Oil Co	White	Concord	1-61	Aux Vases	28-6S-10E
4332	Concord C	Livingston Oil Co	White	Tuley	10-61	Cypress	21-6S-10E
4358	Concord C	Livingston Oil Co	White	Tuley	3-62	Aux Vases	21,22-6S-10E
4206	Concord C	Phillips	White	Kerwin	7-53	A.V., Cyp, & McCl	21-6S-10E
4207	Concord C	Phillips	White	Tuley	7-51	A.V., Cyp, & McCl	21-6S-10E
4325	Concord C	S & M	White	N. Concord U	11-61	Hardinsburg	9,10-6S-10E
508	Cooks Mills C	Ashland	Coles & Douglas	Cooks Mills U	11-61	Spar Mtn	13,24,25-14N-7E; 18,19,20,30-14N-8E
510	Cooks Mills C	Bradley	Coles	Cooks Mills U	4-62	Spar Mtn	26,27,34,35-14N-7E
505	Cooks Mills C	CMS	Coles	Cooks Mills U*	1-61	Spar Mtn	9,15,16-13N-7E
802	Cooks Mills C	C. R. Gray	Douglas	Logan-Moore	4-63	Spar Mtn	13-14N-7E
803	Cooks Mills C	C. R. Gray	Douglas	Combes Estate	4-63	Spar Mtn	13,24-14N-7E
513	Cooks Mills C	Kuykendall Drlg Co	Coles	Bradley WF	4-62	Spar Mtn	27-14N-7E
4000	Cordes	Shell	Washington	Cordes Coop*	8-50	Benoist	14,15,22,23-3S-3W
1309	Dale C	C. E. Brehm	Frank. & Ham.	Westbrook U	8-59	Aux Vases	1-7S-4E; 6-7S-5E
1316	Dale C	C. E. Brehm	Franklin	W. End	6-63	Aux Vases	19,20,30-7S-5E; 25-7S-4E
1513	Dale C	C. E. Brehm	Hamilton	Cantrell U	12-58	Aux Vases	4,5-7S-5E
1534	Dale C	C. E. Brehm	Hamilton	Hogan U*	6-62	Aux Vases	16-7S-5E
1544	Dale C	C. E. Brehm	Hamilton	P. M. Smith	3-63	Aux Vases	33-6S-5E; 4-7S-5E
1545	Dale C	C. E. Brehm	Hamilton	Rural Hill S	4-63	Aux Vases	33,34-6S-5E; 3,4-7S-5E
1519	Dale C	J. A. Dull	Hamilton	1519*		McClosky	14-6S-5E
1520	Dale C	Farrar	Hamilton	Tedford	7-61	Aux Vases	26-5S-6E
1525	Dale C	Farrar	Hamilton	Tedford	7-61	Bethel	26-5S-6E
1547	Dale C	T. W. George	Hamilton	Cantrell S U	10-60	Aux Vases	7,18-7S-5E
1510	Dale C	Culf	Hamilton	W. Rural Hill U	6-59	Aux Vases	11-6S-5E
1511	Dale C	Culf	Hamilton	W. Rural Hill U	6-59	L. Ohara	11-6S-5E
1536	Dale C	David F. Herley	Hamilton	West End	12-62	Aux Vases	8-7S-5E
1528	Dale C	Humble	Hamilton	Dale-Hoodville-Coop	7-61	Aux Vases	27-5S-6E
1529	Dale C	Humble	Hamilton	Dale-Hoodville Coop	7-61	Bethel	27-5S-6E
1523	Dale C	E. H. Kaufman	Hamilton	N. Rural Hill U	1-61	Aux Vases	11,12-6S-5E
1524	Dale C	E. H. Kaufman	Hamilton	S.E. Rural Hill	9-61	Aux Vases	18,19-6S-6E
1533	Dale C	Marathon	Hamilton	Oglesby-Griswold U	6-62	Aux Vases	17-6S-6E
1548	Dale C	W. C. McBride	Hamilton	Benefiel-Arnold	11-63	Aux Vases	16-6S-7E
1512	Dale C	Mobil	Hamilton	Rural Hill	5-59	Aux Vases	12,23,24-6S-5E
1503	Dale C	Phillips	Ham. & Saline	W. End U	1-56	Aux Vases	17,19,20-7S-5E
1542	Dale C	Pure	Hamilton	Eugenie Cuppy	6-63	Cypress	6,7-6S-7E
1514	Dale C	Shell	Hamilton	Rural Hill U	6-59	Aux Vases	7,11,12,13,14,18,23,24-6S-5E
1537	Dale C	Shell	Hamilton	Nellie Porter	9-62	Benoist	32-5S-6E
1535	Dale C	Joe Simpkins	Hamilton	Barker*	11-62	Aux Vases	24-6S-5E
1526	Dale C	Sinclair	Hamilton	J. H. Stelle	8-61	Aux Vases	27-5S-6E
1543	Dale C	Sinclair	Hamilton	Friel	9-62	Benoist	34-5S-6E
1516	Dale C	Stewart	Hamilton	Craddock-Arms	9-60	Aux Vases	19-6S-6E
1531	Dale C	Stewart	Hamilton	Williams Heirs Coop*	7-61	Aux Vases	9,10-6S-6E
1539	Dale C	Stewart	Hamilton	Flannigan U	9-62	Aux Vases	28,29-6S-5E
1540	Dale C	Stewart	Hamilton	Hungate U	12-62	Aux Vases	28-6S-5E
1541	Dale C	Stewart	Hamilton	Brumit	11-59	Aux Vases	6,7-6S-6E
1504	Dale C	Texaco	Hamilton	W. Dale U	7-51	Aux Vases	11-6S-6E
1508	Dale C	Texaco	Hamilton	Hood-Carey U	6-58	Aux Vases	3-6S-6E
1509	Dale C	Texaco	Hamilton	Hood-Carey U	6-58	Benoist	3-6S-6E
1538	Dale C	Texaco	Hamilton	Vaughn-Brockett Coop	3-62	Aux Vases	17,18-6S-6E
2002	Divide C	Culf	Jefferson	W. D. Holloway	5-55	McClosky	21-1S-4E
4007	Dubois C	N. A. Baldridge	Washington	Kaminski*		Cypress	7,8,17-3S-1W
4003	Dubois C	H. Mabry	Washington	Peek	11-59	Cypress	20-3S-1W
4006	Dubois C	H. F. Robison	Washington	Klaybor	10-61	Cypress	17-3S-1W
103	Edinburg W	Skiles	Christian	Edinburg W U	11-61	Silurian	8,16,17-14N-3W
3612	Eldorado C	Ashland	Saline	Suttner	9-63	Aux Vases	7-8S-7E
3608	Eldorado C	W. C. McBride	Saline	Walt Eldorado NE U	8-63	Waltersburg	10,11,14,15-8S-7E
3609	Eldorado C	W. C. McBride	Saline	Cyp Eldorado NE	12-62	Cypress	10,15-8S-7E
3610	Eldorado C	R. W. Portis	Saline	Southwest U	5-63	Waltersburg	20,21-8S-7E
3611	Eldorado C	R. W. Portis	Saline	Central U	6-63	Waltersburg	15,16,21-8S-7E
3607	Eldorado E	C. L. Reasor	Saline	Porter U	1-61	Aux Vases	23-8S-7E
1007	Ellery E	Herndon	Edwards	Ellery E U	11-57	Aux Vases	27,34-2S-10E
1019	Ellery E	Herndon	Edwards	Ellery E U	11-57	Ohara	27,34-2S-10E
4209	Enfield	Ryan	White	S. Enfield U 2	10-56	McClosky	28,29,32-5S-8E
4292	Enfield	Ryan	White	S. Enfield U 3	8-56	Ohara	28,29,32-5S-8E
413	Fairman	Louden Pipeline	Clinton	Ducomb-Krietler*	3-59	Benoist	13,24-3N-1W
3998	Friendsville N	Frederick Heldt	Wabash	N U	6-62	Biehl	12-1N-13W
1916	Gila	S. & M. Oil	Jasper	Gila U*	9-63	Spar Mtn	28,32,33-8N-9E
4123	Coldengate C	Cities Service	Wayne	Coldengate U	8-56	Spar Mtn & Ohara	32,33-2S-9E
4155	Coldengate C	Cullum & Lawhead	Wayne	Pettigrew-Piercy U	11-62	Aux Vases	24-2S-9E

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
63	274*	10.2 <sup>†</sup>	42			2.7	1,025	2,890	10	* Op. adj. <sup>†</sup> Estimated.	4331
268	895*	10.2 <sup>†</sup>	47			8.7	1,050	2,600	10	* Op. adj. <sup>†</sup> Estimated.	4332
48	139*	6.6 <sup>†</sup>	21			4.4	1,050	2,900	10	* Op. adj. <sup>†</sup> Estimated.	4358
98	1,504	22.6	96	101	415	8.9		2,960	10&20		4206
228	2,021	13.2	153	118	1,376	10.4	0	2,960	10&20		4207
430	2,330 861	18.0	467 67	144	780	19.6	400	1,780	10		4325 508
490	1,081	11.9	41	223	257	16.0	800	1,800	20		510
	1,626		126		385			1,825		* No data 1962-1964.	505
14	61	0.2	0			2.1	650		10		802
31	76	0.2	1			17.0	800	1,778	10		803
107	269	4.1	9	69	78	7.3	800	1,805	10		513
1,136	16,567	94.5	4,089	1,409	16,778	6.2	530	1,230	20	* Shell, Mobil, McBride, Horton.	4000
110	620	10.2	58			17.6		3,230	10		1309
694	694	32.6	41			19.0		3,140	10		1316
253	2,067	41.8	308			4.2		3,150	10		1513
374	759	5.5	12			45.2		3,300		* Pilot flood.	1534
416	584	23.3	31			17.2		3,150	10		1544
326	422	2.3	4			20.3		3,250	10		1545
†	†		6		36					* Sold to Ray-Ober Oil Co. 9-1-64; no data since 1962. <sup>†</sup> Affected by adjacent waterflood.	1519
64	209	7.0*	131*	70		8.7	325	3,051		* Incl. 1525 until 7-64.	1520
9*	62	†	†			3.2		2,957		* Inj. discontinued 7-64. <sup>†</sup> Incl. with 1520.	1525
460	1,955*	72.6	442	322		5.7	900	3,125	10	* Adjusted.	1547
227*	10,312	10.7 <sup>†</sup>	1,405 <sup>†</sup>	269 <sup>†</sup>	5,499 <sup>†</sup>	4.0	500	3,100	10	* Inj. discontinued 5-64. <sup>†</sup> Incl. 1511.	1510
9*	695	†	†	†	†	1.6	600	3,173	10	* Inj. discontinued 5-64. <sup>†</sup> Incl. with 1510.	1511
521	956	103.1	126	180		17.0	1,250	3,250	10		1536
450	1,177	40.2*	81*	100*	363*	15.8	410	3,050	20	* Incl. 1529.	1528
18*	319	†	†	†	†	7.7	380	2,950	20	* Inj. discontinued 7-64. <sup>†</sup> Incl. with 1528.	1529
338	1,140	28.8	89*	220		12.3	900	3,150		* Incl. prim. prod. since 1-61.	1523
479	1,504	48.5	183*	292		16.4	700	3,190		* Incl. prim. prod. since 9-61.	1524
54	140	1.0	2	2	10	4.6		3,250	20		1533
138	160	0.5	0	7	7	8.4	150	3,080	20		1548
703	3,107	98.0	530*	559	1,500	6.7		3,108	10	* Incl. prim. prod. since 5-59.	1512
								3,192			
168	2,222	6.5	180	85	1,022	30.6	1,000	3,150	10		1503
475	713	25.0	58	478	1,091	18.6	85	2,700			1542
6,400	40,700	324.0	4,029*	5,982	22,823	4.9	947	3,120	20	* Incl. prim. prod. since 6-59. Prev. sub. to gas inj.	1514
								3,195			
607	1,425	23.2	214	416	678	13.8	708	2,900	20		1537
								3,050			
	141		7					3,120	20	* No data 1964.	1535
253	779	31.2*	52*	223*	486*	31.5	200	3,034	10	* Incl. some Benoist prod.	1526
732	1,468	86.6	191	508	811	10.3	850	2,940	10		1543
								3,050			
38*	540	4.0	11	16	60	5.3	1,100	3,120	10	* Inj. discontinued 7-64.	1516
60	322	1.0	5	55	126	4.1	443	3,090	10	* Coop with N. V. Duncan.	1531
205	555	1.9	9*	35	72	28.1	1,290	3,240	10	* Incl. prim. prod. since 9-62.	1939
162	326	13.0	22	38	41	11.1	1,252	3,244	10		1540
39	241	1.1	5	0	16	5.3	203	3,180	10		1541
437	5,626	21.7	580	227	2,768	14.3	1,320	3,050	10	Prev. sub. to gas inj.	1504
98	582	44.9*	139*	218*	1,049*	3.4	100	3,050	10	* Incl. 1509.	1508
93	573	*	*	*	*	3.3	300	2,950	10	* Incl. with 1508.	1509
169	533	36.1	38	97	171	5.2	870	3,150	10		1538
338	2,581	16.0	180	338	2,168	51.4		2,805	20		2002
	18		4		1		600	1,200		* No data 1964.	4007
7*	68	3.4	16	1	5	1.9	600	1,230	10	* No inj. after 9-64.	4003
24	67	1.8*	5*	24	67	3.3	590	1,250	10	* Incl. prim. prod.	4006
38	673	0.0	0	38	301	5.5	400	1,700			103
74	88	1.4	2	3	4	25.4	800	2,922			3612
1,299	1,669	9.7	27*	11	22*	26.3	615	2,200		* Since 11-1-62.	3608
167	349	20.7	28	38	52	9.5	1,205	2,560	20		3609
830	1,014	35.1	39	43	43	35.5	750	2,140	10		3610
1,141	1,532	56.9	57	67	67	26.0	500	2,150	10		3611
54*	304	4.8	37	6	62	12.6	800	2,900	20	* No inj. after 11-1-64.	3607
176	1,504	19.1*	422*	154*	739* <sup>†</sup>	6.0	2,100	3,170		* Incl. 1019. <sup>†</sup> Estimated.	1007
84	1,607	*	*	*	*	12.8	1,160	3,240		* Incl. with 1007.	1019
112	1,016	5.4	85*	112	758	66.8	1,571	2,945		* Incl. prim. prod. since 10-56.	4209
32	342	2.5	98*	33	259 <sup>†</sup>	18.0	1,782	2,874		* Incl. prim. prod. since 8-56. <sup>†</sup> Since 1-59.	4292
	1,084		236		1,084			1,465	20	* No data 1964.	413
29	75	16.3	40			3.9	975	1,640	10		3998
	275		12		10	109.4	0	2,835	20	* No data 1964.	1916
54	1,067	13.7	103	59	320	2.4	1,350	3,260			4123
59	110	1.6	4	14	22	7.3	1,600	3,270			4155



Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
4154	Coldengate C	Alva C. Davis	Wayne	Bunnage-Woods U*	5-62	Aux Vases	13,24-2S-9E
4145	Coldengate C	N. V. Duncan	Wayne	Scottsville Coop*	1-59	Bethel	23,26-2S-9E
4374	Coldengate C	Culf	White	Goldengate U	3-63	McClosky Spar Mtn	34,35-3S-9E; 3-4S-9E
4375	Coldengate C	Culf	White	Goldengate U	3-63	Aux Vases	34,35-3S-9E; 3-4S-9E
1027	Goldengate C	Illinois Lease Op	Edwards	Chalcraft-Horn	12-62	Aux Vases	20-2S-10E
4139	Coldengate C	T. C. Jenkins	Wayne	Pond Creek U	6-60	Aux Vases	29,30,31,32-2S-9E
4378	Goldengate C	March Drlg	White	Goldengate	5-63	Aux Vases	3-4S-9E
4138	Coldengate C	Skiles	Wayne	O'Daniel U	1-59	Benoist	26-2S-9E
4148	Goldengate C	Tamarack	Wayne	W. Ellery U	9-61	Aux Vases	15,22,23,27-2S-9E
4149	Goldengate C	Tamarack	Wayne	W. Ellery U	9-61	Ohara	15,22,23,27-2S-9E
4150	Goldengate C	Tamarack	Wayne	W. Ellery U	9-61	Spar Mtn	15,22,23,27-2S-9E
4377	Goldengate C	Texaco	White	J. Hancock Coop	1-63	Aux Vases	21-3S-9E
4168	Half Moon	Collins Bros	Wayne	Half Moon U	12-62	McClosky	28-1S-9E
4160	Half Moon	Skiles	Wayne	Half Moon U	1-62	Ohara	26,34,35-1S-9E
3600	Harco	Phillips	Saline	Noble "A"	6-57	Aux Vases	16-8S-SE
3606	Harrisburg	W. C. McBride	Saline	Harrisburg N	1958	Waltersburg	34-8S-6E
1419	Herald C	Ashland	Callatin	S.W. New Haven U	12-61	Tar Springs	29,30-7S-10E
4210	Herald C	C. E. Brehm	White	Herald W U	1-55	Waltersburg	28,33-6S-9E
4304	Herald C	C. E. Brehm	White	New Haven U	2-60	Aux Vases	18-7S-10E
1430	Herald C	Cities Service	Callatin	Herald E	8-63	Aux Vases	24-7S-9E
1405	Herald C	Continental	Callatin	Cottonwood N U	12-57	Cypress	21,28-7S-9E
1431	Herald C	Continental Oil	Callatin	Cottonwood T.S.	10-63	Tar Springs	6-7S-9E
4360	Herald C	Culf	White	Bayley U	1-62	Dagley & A.V.	11-7S-9E
4355	Herald C	Humble	White	Herald U	6-62	Cypress	27,33,34-6S-9E; 4-7S-9E
4340	Herald C	Indiana Farm Bureau	White & Callatin	New Haven U	2-60	Aux Vases	17,18-7S-10E
1433	Herald C	Frank W. King, Jr.	Callatin	Clover	9-63	Aux Vases	24-7S-9E
4365	Herald C	Kingwood	White	Herald Coop	5-62	Aux Vases	10-7S-9E
4211	Herald C	Mabee Petroleum Co	White	Ackerman U*	2-56	Aux Vases	4-7S-10E
4359	Herald C	Livingston Oil Co	White	Calvert "A"	5-62	Aux Vases	4-7S-10E
4382	Herald C	Bernard Podolsky	White & Callatin	Bayley U	1-63	Waltersburg	24,13-7S-9E
4383	Herald C	Bernard Podolsky	White	Crant-Aux Vases U*	8-63	Aux Vases	13-7S-9E
4348	Herald C	Shakespeare	White	Questell	1-62	Dagley	11-7S-9E
4364	Herald C	Tamarack	White	Herald U	1-62	Penn	34-6S-9E; 2-7S-9E
1105	Hill E	Wichita River	Effingham	Hill E U	12-59	Cypress	11,12,13,14-6N-6E
332	Hord S C	Shirk & Webster	Clay	S. Hord U*	9-58	Spar Mtn	26,27,34,35-5N-6E
337	Hord S C	Shirk & Webster	Clay	Zink WF U*	8-62	Spar Mtn	26,35-SN-6E
2008	Ina	Kewanee	Jefferson	Jeff-Karber-Threl "B"	12-60	Renault McClosky	23-4S-2E
1422	Inman E C	Farrar	Callatin	Inman E U*	1959	Cypress Tar Springs Waltersburg	2-8S-10E
1406	Inman E C	Humble	Callatin	Big Barn	4-54	U. Cypress	11-8S-10E
1407	Inman E C	Humble	Callatin	Kerwin-Crawford U	6-55	Clore, Pal, Walt, T.S., Cyp & Hard & Cyp	11,14-8S-10E
1408	Inman E C	Humble	Callatin	West U	7-56	Walt, Hard & Cyp	9,10,15,16,21,22-8S-10E
1429	Inman E C	Humble	Callatin	S. Inman	10-62	Cyp, Walt	21,22-8S-10E
1426	Inman E C	Skelly	Callatin	Egyptian Tie & Timber	1-59	Waltersburg Hardinsburg Cypress	21-8S-10E
1428	Inman W C	Kenneth E. Bush	Callatin	Hish-Straub U*	1-62	Biehl	21-8S-9E
1400	Inman W C	T. A. Ferral	Callatin	*	7-58	Aux Vases	19-8S-10E
1401	Inman W C	V. R. Callagher	Callatin	Bradley U	10-57	Biehl	17-8S-9E
1427	Inman W C	Skelly	Callatin	Schmitt "A"	6-60	Buchanan	15-8S-9E
1415	Inman W C	Skiles	Callatin	Inman W	4-56	Tar Springs	13,24-8S-9E
321	Iola C	Humble	Clay	Iola	6-58	A.V. & Bethel	15-SN-5E
322	Iola C	Texaco	Clay	Iola Coop	6-58	Benoist	14,15-SN-5E
323	Iola C	Texaco	Clay	Iola Coop	6-58	Aux Vases	14,15-SN-5E
338	Iola C	Texaco	Clay	Iola S U	9-62	Aux Vases	22-SN-5E
303	Iola C	Tidewater	Clay	Iola Coop	10-57	Bethel Aux Vases	14,15-SN-5E
4001	Irvington	L. Kapp	Washington	Molting Field*		Cypress	9-1S-1W
4002	Irvington	M. Mazzarino	Washington	Kasten	11-57	Cypress	9-1S-1W
4004	Irvington	Mobil	Washington	C. Koelling	2-59	Benoist	15-1S-1W
2015	Irvington E	E. M. Self	Jefferson	Wacker*	7-56	Benoist	31-1S-1E
2613	Iuka	Texaco	Marion	Iuka	8-60	McClosky	10,15-2N-4E
203	Johnson N	Skiles C.E.	Clark	N. Johnson	1-53	Casey	2,11-9N-14W
206	Johnson N	O. A. Oldfield	Clark	V. Jones*	9-51	Casey	1,3-9N-14W
207	Johnson N	Pure	Clark	N. Johnson	11-56	Claypool, Casey, U. Partlow	10,11,15-9N-14W
229	Johnson S	Dillman & Tyhurst	Clark	Partlow*		Penn	34-9N-14W
209	Johnson S	Forest	Clark	S. Johnson (12)	3-49	U. Partlow	27,34,35-9N-14W



Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
	49		2		4			3,250	10	* No data 1963-1964.	4154
	751		254					3,100	10	* No data 1964.	4145
1,053	1,713	330.1*	426*	1,083*	1,229*	8.5	1,600	3,400	10	* Incl. 4375.	4374
								3,450			
1,201	2,314	*	*	*	*	8.4	1,450	3,300	10	* Incl. with 4374.	4375
34	70	6.9	11	2	4	11.5	1,250	3,222			1027
903	2,442*	81.5	242*	216	459*	16.5	1,800	3,210	10	* No data 1963.	4139
22	56	23.7	24	55	55	2.8	2,200	3,310	10		4378
0*	215	0.5	26	5	18			3,097		* Inj. discontinued 7-63.	4138
81	148	*	*	*	*	6.2	1,750	3,230		* Incl. with 4149.	4148
242	654	32.2*	77* <sup>†</sup>	83*	139*	22.1	1,700	3,300		* Incl. 4148 & 4150. <sup>†</sup> Incl.	4149
										prim. prod.	
43	185	*	*	*	*	5.8	1,750	3,300		* Incl. with 4149.	4150
192	320	10.0*	21*	149*	171*	17.5	800	3,240	10	* Incl. 4400.	4377
982	1,699	37.7	68	517	726	38.4	1,000	3,300	20		4168
651	1,168	39.9	59	187	258	25.4	1,500	3,280	20		4160
21	179	4.9	24	1	6	4.8	0	2,890	10		3600
153	958	0.5	6	6	77	14.0	100	2,020	20		3606
197	606	26.1	127	161		19.3	1,200	2,150	20		1419
166	1,081	46.6	322			4.6		2,325	10		4210
0	88*	2.9	14					2,900	10	* Inj. discontinued 1-62.	4304
171	211	0.0	1	12	15	6.7	1,170	2,900	10		1430
366	4,130	81.2	884*	275	1,369	4.1	1,575	2,650	10	* Incl. prim. prod. since 12-57.	1405
77	115	14.6	15	7	7	14.0	1,575	2,260	10		1431
396	1,502*	23.2	85	284	803	14.5	1,000	2,850	10	* 36,766 bbls inj. into Dagley sand.	4360
722	1,846	198.6	283	229	329	8.7	1,270	2,675	20		4355
66	696	12.2	60	.4	2	4.3		2,870	10		4340
38	50	2.4	3	2	3	13.0	870	2,900	10		1433
162	352	26.6	45*	52	79	11.4	1,100	2,900	10	* Incl. prim. prod. since 5-62.	4365
	233		45 <sup>†</sup>					2,890		* No data 1964. <sup>†</sup> Excl. 1961-1962.	4211
7*	31	0.2	.4 <sup>†</sup>			3.1	40	2,920	10	* Shut down 7-64. <sup>†</sup> Incl. prim. prod.	4359
140	247	8.6	19	34	35	43.2	550	2,300			4382
35	49	1.9	3	13	14	9.8	1,300	2,930		* Coop with Cities Service in sec. 24.	4383
34	106	13.5	38*	1		7.3	856	1,425	10	* Incl. prim.	4348
59*	343	6.3	17 <sup>†</sup>	8	17	26.2	950	1,550		* Inj. discontinued 4-2-64.	4364
*	2,682*	14.6 <sup>†</sup>	153 <sup>†</sup>	*	877*			2,460		* No data 1964. <sup>†</sup> Est. Incl. prim. prod.	1105
	3,539		536		1,885	65.9	1,500	2,790	20	* No data 1964.	332
	579		5		177	60.9	1,550	2,790	20	* No data 1964.	337
518	1,752	29.1	166*	357	1,082	26.3	1,000	2,640		* Incl. prim. prod. since 12-60.	2008
								2,770			
1,388	22,447	53.3	3,456			1.7	1,100	2,390 <sup>†</sup>	10	* Incl. 1409, 1410, 1424, 1423 & 1425. <sup>†</sup> Estimated.	1422
								2,080 <sup>†</sup>			
								1,980 <sup>†</sup>			
36	206	1.7	82	2	26	8.4	1,180	2,400	20		1406
655	9,562	71.6	1,809	534	3,164	2.8	1,180	1,670	20		1407
2,528	15,172*	142.3	2,853*	845	4,355*	15.7	1,150	2,000	20	* Incl. Tar Springs data since 7-1-58.	1408
288	633	19.9	32	128	238	7.5	680	2,000	20		1429
68	395	0.2	11	19	95	6.7	1,200	1,986	10		1426
								2,206			
								2,416			
0	32	0.0	19	0	42			1,570	10	* Temp. abd during 1964.	1428
										* No data.	1400
39	450	6.4	154*	23	160	13.3	1,280	1,726	10	* Incl. prim. prod.	1401
37	168	0.1	7	4	35	12.5		1,666	10		1427
199	835	9.6	50	94	354	10.9	1,250	2,122			1415
100	459	14.5	108	110	440	6.5	800	2,150	20		321
230	1,387	7.1	42	*	*	11.0	850	2,290	10	* Incl. with 323.	322
349	3,095	14.5	169	445*	3,510*	10.3	850	2,350	10	* Incl. 322.	323
420	782	14.2	29	326	672	15.0	1,360	2,340	10		338
1,395	6,961	63.1	1,000	902	4,580	2.6	840	2,280	20		303
								2,330			
	134 <sup>†</sup>		12 <sup>†</sup>		96 <sup>†</sup>			1,374	10	* No data since 1959. <sup>†</sup> As of 1-59.	4001
37	253	10.5	83	37	239	5.1	500	1,400	10		4002
121	476	7.0	43	64	257	15.3		1,531	10		4004
	78 <sup>†</sup>		99 <sup>†</sup>							* No data 1964. <sup>†</sup> 1957, 1958 only.	2015
*	*	6.2	25	24	143	*	*	2,750	10	* Dump flood, unknown.	2613
429	2,871	17.7	650	60	114*	2.6	350	475	10	* Since 1-63.	203
										* No data 1957-64.	206
1,358	9,912	54.9	835	1,293	7,441	1.2		595	4.5		207
			1 <sup>†</sup>		3 <sup>†</sup>			521		* No data 1964. <sup>†</sup> As of 1-62.	229
3,378	52,298	56.7	1,049			2.6	390	490	4.4	Prev. subj. to gas inj.	209

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
228	Johnson S	Hydroleum Corp*	Clark	Deverick & Linginfelter		Penn	35-9N-11W
210	Johnson S	Pure	Clark	Johnson Ext. 1 & 2	1-54	Claypool Casey U. Partlow	22,23,26,27-9N-14W
212	Johnson S	Pure	Clark	M. E. Larrison	1-54	U. Partlow	22,27-9N-14W
213	Johnson S	Pure	Clark	Weaver-Bennett	1-53	U. Partlow	27-9N-14W
4134	Johnsonville C	Pure	Wayne	Crisp U	11-57	Aux Vases	7,8,17,18-1S-6E
4167	Johnsonville C	Shell	Wayne	E. Johnsonville U	1-63	L. Miss., A.V.	25,36-1N-6E; 1-1S-6E
4121	Johnsonville C	Texaco	Wayne	Johnsonville	10-56	Aux Vases	3,4-1S-6E; 21,26,27,28,33,34,35-1N-6E
4122	Johnsonville C	Texaco	Wayne	Johnsonville U*	11-54	Ohara McClosky	3,4-1S-6E; 21,26,27,28,33,34,35-1N-6E
4172	Johnsonville S	Ashland	Wayne	West Geff U	5-63	Aux Vases	11,14-1S-6E
4169	Johnsonville W	Joe A. Dull	Wayne	Johnsonville W U	10-63	McClosky	2-1S-5E
4161	Johnsonville W	Kirby Petr	Wayne	W. Johnsonville AV	5-62	Aux Vases	14,23-1N-5E
1412	Junction	Estelle Price	Gallatin	Junction U	5-51	Waltersburg	16-9S-9E
3991	Keensburg S	Continental	Wabash	Utley U	12-62	Penn	10-3S-13W
4125	Keenville	N. A. Baldridge	Wayne	Keenville U*	11-56	McClosky	27,28,33,34-1S-5E
305	Kenner	Texaco	Clay	Kenner U	11-57	Benoist	25,36-3N-5E; 30,31-3N-6E
330	Kenner	Texaco	Clay	Kenner U	6-59	Aux Vases	30,31-3N-6E; 25,36-3N-5E
306	Kenner W	Phillips	Clay	W. Kenner U	2-52	Cyp, Ben & A.V.	23-3N-5E
2016	King	N. A. Baldridge	Jefferson	Eber-Goff*	1962	Aux Vases	22-3S-3E
2013	King	Texaco	Jefferson	Baker-Bumpus-Smith U	5-61	Aux Vases	33,34-3S-3E
3954	Lancaster	Hayes Drlg	Wabash	Lancaster U	12-58	Bethel	4,9-1N-13W; 33-2N-13W
2201	Lawrence	Baldwin & Baldwin	Lawrence	Cummins Farm*	10-57	B'port & P. C.	6-3N-12W
2242	Lawrence	Baldwin & Baldwin	Lawrence	O'Donnell*	4-59	Cypress	17-3N-12W
2268	Lawrence	Francis L. Beard	Lawrence	Jenner	11-62	Benoist	36-3N-12W
2269	Lawrence	Francis L. Beard	Lawrence	Jenner	11-62	Cypress	36-3N-12W
2202	Lawrence	Bradley	Lawrence	C. M. Perkins	2-55	Bridgeport	32-4N-12W
2203	Lawrence	Bradley	Lawrence	C. M. Perkins	2-55	Kirkwood	32-4N-12W
2233	Lawrence	Bradley	Lawrence	Pepple	6-57	Kirkwood	30-4N-12W
2234	Lawrence	Bradley	Lawrence	L. Gillespie	11-58	Paint Creek	26,35-3N-12W
2235	Lawrence	Bradley	Lawrence	L. Gillespie	11-58	Cypress	26,35-3N-12W
2236	Lawrence	Bradley	Lawrence	L. Gillespie	11-58	Bridgeport	26,35-3N-12W
2241	Lawrence	Bradley	Lawrence	Fyffe	7-59	Cypress	6-3N-12W; 1-3N-13W; 36-4N-13W
2245	Lawrence	Bradley	Lawrence	S. Gillespie	10-60	Kirkwood	26-3N-12W
2246	Lawrence	Bradley	Lawrence	S. Gillespie	10-60	Paint Creek	26-3N-12W
2255	Lawrence	Bradley	Lawrence	Breen	5-60	Benoist	24,25-4N-13W
2256	Lawrence	Bradley	Lawrence	Breen	5-60	Cypress	24,25-4N-13W
2257	Lawrence	Bradley	Lawrence	Pepple	8-59	Benoist	30-4N-12W
2258	Lawrence	Bradley	Lawrence	Whittaker Area	4-61	Paint Creek	2,3,10,11-3N-12W
2259	Lawrence	Bradley	Lawrence	Whittaker Area	11-60	Cypress	2,3,10,11-3N-12W
2260	Lawrence	Bradley	Lawrence	E. J. Seed	2-61	Kirkwood	15,16,22-3N-12W
2261	Lawrence	Bradley	Lawrence	E. J. Seed	2-61	Jackson	15,16,22-3N-12W
2265	Lawrence	Bradley	Lawrence	Piper-Droll	12-61	Jackson	1,2-4N-13W; 36-5N-13W
2266	Lawrence	Bradley	Lawrence	Piper-Droll	4-62	Cypress	36-5N-13W; 1,2-4N-13W
2263	Lawrence	Harold Brinkley	Lawrence	Pepple & Moody*	4-62	Benoist	6-2N-11W
2207	Lawrence	Consolidated O & G	Lawrence	Gray Area*	5-53	Jackson Benoist Renault	13,14-4N-13W
2247	Lawrence	Fairfield Salvage	Lawrence	Buchanan	2-61	Cypress	16-3N-12W
2243	Lawrence	Gulf	Lawrence	Bell U	6-59	Cypress	1-3N-13W
2244	Lawrence	Gulf	Lawrence	Bridgeport U	6-59	Cypress	6-3N-12W
2270	Lawrence	Harris Drlg	Lawrence	Gray Fee	1959	Benoist	1-2N-12W
2271	Lawrence	Harris Drlg	Lawrence	Gray Fee	1959	Cypress	1-2N-12W
2240	Lawrence	D. S. Huddleston	Lawrence	Vandermark-Albrecht U	8-58	Bridgeport	34-3N-12W
2213	Lawrence	Marathon	Lawrence	16 Projects*	1952	Kirk, P.C.	3,4N-12,13W
2214	Lawrence	Marathon	Lawrence	9 Projects*	1948	Bridgeport	3,4N-12,13W
2216	Lawrence	Marathon	Lawrence	4 Projects*	11-56	McClosky	3,4N-12,13W
2204	Lawrence	W. C. McBride	Lawrence	Applegate	9-52	Cyp & Jack	7-4N-12W; 12-4N-13W
2208	Lawrence	W. C. McBride	Lawrence	Crump "40"	4-56	Kirkwood	19-4N-12W
2209	Lawrence	W. C. McBride	Lawrence	Crump U 1	12-56	Kirkwood	31-4N-12W
2210	Lawrence	W. C. McBride	Lawrence	Neal	6-56	Kirk & P.C.	29-4N-12W
2249	Lawrence	W. C. McBride	Lawrence	Hinkle	8-59	McCl, Kirk, P.C.	27-3N-12W
2251	Lawrence	W. C. McBride	Lawrence	Combs	3-59	Kirk & Ben	20-4N-12W
2252	Lawrence	W. C. McBride	Lawrence	Bower-Ross	8-58	Kirkwood	29-4N-12W
2253	Lawrence	W. C. McBride	Lawrence	Fyffe (39)	12-56	Kirkwood	31-4N-12W
2254	Lawrence	W. C. McBride	Lawrence	Dalrymple	9-59	Kirk, P.C., & Ben	29-4N-12W
2262	Lawrence	W. C. McBride	Lawrence	Fyffe U	12-60	Kirkwood	36-4N-13W

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
1,464	15,647	36.3	732	1,395	13,059	0.7		521 420 465 500	10 5	* No data 1964.	228 210
153	4,212	1.6	162	146	3,452	1.6		507	4.4	Prev. subj. to air inj.	212
419	10,604	6.3	518	399	9,247	2.7		467	4.4		213
934	6,531	42.6	1,119*	687	2,608	15.0	1,400	3,019	40	* Incl. prim. prod. since 2-58.	4134
1,360	2,651	140.8	207	472	534	12.5	488	3,200	20		4167
2,263	13,856	312.7	2,346	1,766	7,809	13.1	800	3,000	10		4121
4,034	39,124	323.9	3,612	3,799	20,261	17.5	600	3,050 3,100	20	* Incl. 4135.	4122
549	731	43.0	51	39	44	13.7	1,350	3,050	10		4172
328	363	6.5	8	3	4	56.1	1,560	3,065	20		4169
275	617	151.1	468	54	56	12.6	1,000	2,900	10		4161
180	2,017	13.2	303*	16	870	3.3	1,400	1,720	10	* Incl. prim. prod.	1412
96	205	13.3	90	77	77	20.2		1,181	10		3991
	1,647		248		1,120			3,100		* No data 1964.	4125
101*	4,294 <sup>†</sup>	7.8	367	46	1,691	1.5	1,585	2,700	10	* No inj. 5-62 to 10-62. <sup>†</sup> Op. adj.	305
1,079	3,825	59.2	138	410	1,246	5.9	1,500	2,800	10		330
512	15,432	23.9	483	325	4,047	13.5	1,120	2,600	10		306
	18		1		7			2,725		* No data 1964.	2016
329	963	6.6	28	1	283	16.4	990	2,735	10		2013
459	1,578	106.2	315	12		3.7	1,400	2,500			3954
	1,665		148		414			1,500	10	* No data since start of flood. * Formerly Bradley. No data 1964.	2201 2242
80	150	*	*	*	*	5.5	250	1,655	10	* Incl. with 2269. Prev. subj. to gas inj.	2268
265	418	28.0*	40* <sup>†</sup>	95*	132*	5.8	150	1,540	10	Prev. subj. to gas inj. *Incl. 2268. <sup>†</sup> Incl. prim. prod.	2269
584	5,625	21.1*	710*	310*	2,873*	6.0	600	900	10	* Incl. 2203.	2202
438	5,807	*	*	*	*	3.2	600	1,350	10	* Incl. with 2202.	2203
628	5,159	48.9*	819*	307*	2,150*	2.7	700	1,400	10	* Incl. 2257.	2233
146	1,097	*	*	*	*	2.3		1,660	10	* Incl. with 2236.	2234
904	4,821	*	*	*	*	5.2	800	1,550	10	* Incl. with 2236.	2235
1,187	5,142	67.3*	629*	1,053*	3,653*	6.8	800	990	10	* Incl. 2234 & 2253.	2236
607	4,055	11.6	405	129	1,142	4.8	550	1,580	10		2241
97	368	13.8*	64*	5*	5*	1.2	800	1,550	40	* Incl. 2246.	2245
124	238	*	*	*	*	4.3		1,660	40	* Incl. with 2245.	2246
157	460	*	*	*	*	3.6	600	1,675	10	* Incl. with 2256.	2255
220	778	21.0*	153*	131*	630*	5.0	600	1,530	10 & 40	* Incl. with 2255.	2256
127	858	*	*	*	*	2.9		1,650	10 & 40	* Incl. with 2233.	2257
288	1,005	*	*	*	*	1.9		1,630	40	* Incl. with 2259.	2258
1,036	3,483	167.2*	769*	481*	1,386*	6.8	900	1,520	40	* Incl. with 2258.	2259
8	52	*	*	*	*	2.5	900	1,590	10	* Incl. with 2261.	2260
2	46	3.8*	22* <sup>†</sup>			0.6	900	1,500	10	* Incl. 2260. <sup>†</sup> Incl. prim. prod.	2261
860	1,806	237.8*	424*	239*	288*	9.3	800	1,310	40	* Incl. 2266.	2265
736	1,562	*	*	*	*	9.6	800	1,400	40	* Incl. with 2265.	2266
	77		1					1,841		* No data 1963-1964.	2263
	5,401		606		3,033	6.8		1,428	10	* No data 1964.	2207
								1,611 1,632 1,700			2247
134	610	0.0	0	24		8.1	900	1,650	15		2243
222	2,265	4.2	171	73	940	15.2	935	1,575	10		2244
665	4,017	47.1	1,030	573	2,331	8.2	750	1,670	10		2270
31	148	1.8	4	0	0	8.5	300	1,545	10		2271
86	302	1.8	4	7	14	9.3	605	988	10		2240
163	799	16.4	113	92		9.3					2213
19,182	113,394	3,580.6	22,876	12,873	53,197				10 & 20	* Westall-King-Boyd-Sutton- Middagh-Kimmel-Moore-Thorn- Gould-Leighty-Judy-Seed- Ryan-Jenner-Newell-Gray.	2214
7,743	102,664	516.8	10,861	7,434	75,138				10	* Prev. subj. to gas inj. Robins-Johnson-Kingler- Baltzell-Lewis-Clark-Cooper- Finley-Gee.	2216
3,722	21,373	401.2	2,647	3,443	14,586				40	* Applegate-Williams-Gillespie- Vandermark.	2216
879	2,612	33.5	185	682	1,794	8.0	600	1,350	10		2204
131	1,494	9.4	241	275	1,857*	3.6	500	1,280	10	* Since 1-57.	2208
160	1,130	7.2	125	84	413	4.0	610	1,420	10		2209
334	3,102	26.7	549	316	1,466	3.1	600	1,390	10		2210
142	265	7.4	24	38	201	3.1	325	1,650	20		2249
68	649	2.8	51	42	233	2.3	400	1,450	10		2251
229	1,257	13.0	166	180	753	8.1	400	1,320	10		2252
122	1,095	5.8	174	146	696	5.5	600	1,420	10		2253
304	2,044	29.4	397	263	893	3.9	580	1,600	10		2254
223	1,185	11.1	154	187	719	3.5	750	1,650	10		2262



TABLE 11 -- ILLINOIS WATERFLOOD PROJECTS

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
2211	Lawrence	Murphy	Lawrence	Stoltz	1-55	Bridgeport	32-4N-12W
2212	Lawrence	Murphy	Lawrence	Stoltz	1-55	Kirkwood	32-4N-12W
2273	Lawrence	David Rotstein	Lawrence	Loeb & McPherson	12-62	Cypress	14,15,22-3N-12W
2274	Lawrence	David Rotstein	Lawrence	Cillespie & Calvert	11-62	Benoist	15,22-3N-12W
2275	Lawrence	David Rotstein	Lawrence	Burns, Griggs, Zellers	11-56	Cypress	8-3N-12W
2217	Lawrence	Shakespeare	Lawrence	S. Bridgeport U & W. C. Miller Coop	10-56	Kirkwood	20,29,30-3N-12W
2272	Lawrence	Wayne Smith	Lawrence	Hayward Area*	12-63	Benoist	25,26-3N-12W
2237	Lawrence	R. S. Thompson*	Lawrence	Stoltz Heirs*	7-58	McC, Ben, P.C. & Cyp	25-4N-13W
2264	Lawrence	Zanetis	Lawrence	Cassil	9-62	Cypress	36-4N-13W
2250	Lawrence W	Acme Casing Pulling*	Lawrence	S. Sumner U	12-59	Kirk, Cyp & P.C.	14,23,24-3N-13W
704	Lillyville	Indiana Farm Bureau	Cumberland	Krogman	5-57	Benoist	31-9N-7E
2502	Livingston	W. H. Krohn	Madison	Kroeger*	5-59	McClosky	17-6N-6W
2501	Livingston	M. W. McConnell	Madison	C & O Henke U*	5-52	Penn	17,20-6N-6W
2401	Livingston S	M. J. Williams	Madison	Blom-Fowler-Ruehrup	10-63	Penn	27-6N-6W
1202	Louden	W. L. Belden	Fayette	U 25	10-57	Cypress	24,25-8N-3E
1203	Louden	D. L. Burtschi	Fayette	D. L. Burtschi U	10-53	Cypress	18-7N-3E
1205	Louden	Doran	Fayette	Stewart & Dial U	7-57	Cypress	6-7N-3E
1200	Louden	W. H. Fishburn	Fayette	Rhodes & McCloy	1-54	Cyp, P.C. & Bethel	26,27,34-8N-3E
1206	Louden	General American	Fayette	Devore Coop	7-57	Weiler	1-7N-2E
1225	Louden	L. B. Hoss	Fayette	Emerson #2 W U	2-59	Cypress	31-8N-3E
1235	Louden	L. B. Hoss	Fayette	H. Logue #3 W	1959	Cypress	18-7N-3E
1232	Louden	Hughes	Fayette		8-57	Paint Creek	12-7N-2E
1204	Louden	Humble	Fayette	Louden	10-50	Cypress	7-8N-3E
1207	Louden	Jarvis Bros & Marcell	Fayette	Homan	3-54	Weiler, P.C., Beth & A.V.	29,31,32-7N-3E
1208	Louden	Jarvis Bros & Marcell	Fayette	Yahey	11-57	Cypress	6-7N-3E
1230	Louden	Jarvis Bros & Marcell	Fayette	Sinclair	8-60	Benoist	29-8N-3E
1209	Louden	B. Kidd	Fayette	B. F. Owens	9-54	Cypress	29-8N-3E
1210	Louden	Kingwood	Fayette	Volton	8-57	Paint Creek	8-7N-3E
1211	Louden	Kingwood	Fayette	Volton	8-57	Weiler	12-7N-2E; 7-7N-3E
1228	Louden	Kingwood	Fayette	Smith	1-58	Paint Creek	7-7N-3E; 12-7N-2E
1234	Louden	Kingwood	Fayette	Welker	5-62	Cypress	13-7N-2E
1236	Louden	M-S-C	Fayette	D. L. Burtschi	9-53	Cypress	13-7N-2E
1237	Louden	M-S-C	Fayette	Sefton	8-57	Cypress	18-7N-3E
1214	Louden	Mabee	Fayette	Homan	8-55	Paint Creek	1,12-7N-2E
1215	Louden	Mabee	Fayette	Koberlien*	5-57	Cypress	1,12-7N-2E
1217	Louden	W. C. McBride	Fayette	Stokes-Weiler	3-56	Cypress	29-7N-3E
1233	Louden	W. C. McBride	Fayette	Sapp	11-62	Weiler	30-7N-3E
1216	Louden	Mobil	Fayette	Rhodes-Watson Coop	8-57	Cypress	14-8N-3E
1224	Louden	Mobil	Fayette	Louden	4-58	Weiler	18-7N-3E
1227	Louden	Mobil	Fayette	Buzzard Bros	8-60	Cypress	27,33,34-8N-3E
1213	Louden	Self Realization	Fayette	E. C. Smith	7-57	Paint Creek	32-8N-3E; 5-7N-3E
1218	Louden	Shell	Fayette	N. Loudon U	11-56	Benoist	29-8N-3E
1219	Louden	Shell	Fayette	S. Loudon U	3-55	Paint Creek	20-7N-3E
1212	Louden	Shulman Bros	Fayette	Louden Ext	12-55	Cypress	20,21-7N-3E
1229	Louden	Texaco	Fayette	Louden S	5-60	Cypress	21,28,29-7N-3E
1220	Louden	R. H. Troop	Fayette	Durbin & Force Area	10-56	Cypress	2,3-7N-3E; 34,35,36-8N-3E
1221	Louden	R. H. Troop	Fayette	Hiatt U	9-56	Weiler	6-6N-3E; 31-7N-3E
1231	Louden	R. H. Troop	Fayette	W. A. Eagleton	4-61	Cypress	24,26-8N-3E
603	Main C	Ashland	Crawford	Birds 2	3-57	Cypress	29-7N-3E
604	Main C	Bell Bros	Crawford	Barrick	10-54	Weiler	20-8N-3E
607	Main C	Judy Bonelli	Crawford	Mitchell*	6-53	Robinson	20-5N-11W
615	Main C	Judy Bonelli	Crawford	Porterville*	4-54	Robinson	13-7N-13W
695	Main C	Kenneth E. Bush	Crawford	Mullins*	12-62	Robinson	24,25-7N-13W
625	Main C	Cascade	Crawford	"D.I.M."*	7-53	Robinson	25,26,35,36-8N-13W
609	Main C	E. Constantin	Crawford	J. S. Kirk*	8-51	Robinson	9-5N-12W
610	Main C	E. Constantin	Crawford	Smith*	3-54	Robinson	25,26-6N-13W
608	Main C	W. Duncan	Crawford	Tohill-Hughes-Robinson	6-51	Robinson	29,30,31,32-7N-12W
606	Main C	Forest	Crawford	Crogan 2 (26)	10-53	Robinson	12-7N-13W; 7-7N-12W
611	Main C	Forest	Crawford	Oblong 1 (25)	8-56	Robinson	27,28-6N-13W
613	Main C	Forest	Crawford	Culver F 31	2-61	Robinson	5,8,9-7N-13W
669	Main C	Forest	Crawford	Oblong 3 (27)	1958	Robinson	5,8,9-7N-13W
670	Main C	Forest	Crawford	Stifle U (28)	1958	Robinson	5,8,9-7N-13W
691	Main C	Forest	Crawford	Flood 29	1-63	Robinson	8-7N-13W
612	Main C	D. W. Franchot	Crawford	Birds*	6-51	Robinson	16,17-7N-13W



Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
521	3,586	18.8*	586*	537*	3,809*	5.7	550	860	3	* Incl. 2212.	2211
341	4,122	*	*	*	*	5.0	600	1,400	3	* Incl. with 2211.	2212
448	954	46.3	80	108		7.0	800	1,535	20		2273
								1,650			
238	383	17.3	22	28	32	9.3	800	1,590			2274
1,003	6,050	41.8	464	612		9.8	650	850	10		2275
								1,440			
524	4,553	26.6	519	314	1,867	7.4	910	1,800	23.3		2217
	4		0					1,650	10&40	* No data 1964.	2272
	164		40		58			1,562	10	* No data since 1958.	2237
19	41	9.9	50*	55	139	2.7		1,640	10	* Inj. in line wells by adj. operator; started 7-61.	2264
243	1,082	10.9	180	59		9.0	900	2,040	10	* Prev. op. Houchins.	2250
82	485	6.8	46	.5		28.2	300	2,450			704
	37		3					520	10	* No data since 1962.	2502
	688		311					525		* No data since 1960.	2501
83	97	9.1	10	1	1	5.7	650	545			2401
426	3,189	47.2	351*			7.7	250	1,530	18-20	* Excluding 1959.	1202
25	449	4.5	132*			2.3		1,650		* Incl. prim. prod. Prev. subj. to gas inj.	1203
57	521	12.5	77	14	14	2.6	800	1,522	5		1205
269	3,514	18.1	601	262	1,724	3.7	1,000	1,550	10	Prev. subj. to gas inj.	1200
86	404	31.9	227*	73	239 <sup>†</sup>	23.5	450	1,454	10	* Incl. prim. prod. <sup>†</sup> Op. adj.	1206
11	54	2.1	22*	11	54	2.5	800	1,500	10	* Excl. 1960 through 1962.	1225
55	173	8.8	10*	13	40	2.7	150	1,474	10	* Excl. 1961 & 1962.	1235
18	58	Total	Total			5.0		1,586			
182	498	48.6	172*	261	471*	6.3	180	1,505	20	* No data 1962.	1232
42,388	369,033	9,349.0	85,107	23,988	115,555	5.3	354	1,500	10&20		1204
								40			
1,625	14,373	46.1	1,847	1,411	8,796	6.7		1,562	10		1207
290	2,313	17.2	252	244	1,281	2.2		1,400	20	Prev. subj. to gas inj.	1208
								1,540			
399	1,481	97.5	446	339	836	3.1		1,446			1230
								1,528			
45*	701*	10.6	188			3.0	700	1,450	20	* Incl. one half of inj. from one line well.	1209
179	1,294	51.3	508*	168	664	4.1	0	1,504	10	* Incl. prim. prod.	1210
23	233	2.9	17*	7	43	2.2	430	1,572	10	* Incl. prim. prod.	1211
121	533	26.9	114	70	170	6.6	0	1,504	10		1228
28	62	0.5	1	1	2	7.0	0	1,558	5		1234
68	1,207	13.6	132	54	682*	1.6	650	1,500	20	* Since 1-1-53. Prev. subj. to gas inj.	1236
								1,570			
76	579	13.0	166	68	289*	5.2	300	1,560	20	* Since 1-1-57.	1237
274	2,648	20.1	476*	249	2,624	4.7	440	1,595	20	* Incl. prim. prod.	1214
189	1,315	25.3	440*	166	1,292	3.4	0	1,590	20	* Incl. prim. prod.	1215
150	1,491	17.1	360	87	281	5.5	45	1,480	20		1217
87	190	22.2	25	5	6	3.9	65	1,400	20		1233
345	2,547	57.0	799*	275	1,220	6.3		1,500	20	* Incl. prim. prod.	1216
								1,560			
								1,580			
1,475	10,797	417.0	3,742*	1,134	2,311	2.1		1,450	20	* Incl. prim. prod.	1224
								1,525			
								1,550			
121	514	24.0	72*	71	346	2.1		1,400		* Incl. prim. prod.	1227
								1,420			
292	1,955	35.2	724	244	1,141	13.3	400	1,400	10		1213
1,784	14,682	41.2	1,531	1,398	9,434	11.6	165	1,550	10		1218
1,098	12,026	50.9	2,007	956	8,060	7.8	489	1,550	20		1219
2,424	30,111	42.0	3,118*	2,403	18,829	9.6	1,080	1,530	10	* Incl. prim. prod.	1212
311	1,371	60.1	155	1,161	5,254	4.9	400	1,600	10		1229
70	670	20.5	252*			6.4		1,493	10	* Op. adj. Incl. prim. prod.	1220
206	1,517	9.8	439	246	1,404	7.0	0	1,536	10		1221
5	37	7.2	33			2.1		1,520	10	* Incl. prim. prod.	1231
327	2,276	11.0	101*	150		3.3	590	930		* Incl. prim. prod.	603
161	1,435	7.2	113	81	558	2.6	488	960	10	Prev. subj. to gas inj.	604
	935		107		125			900	10	* No data since 1962.	607
	1,345		44					890	10	* No data since 1962.	615
	15		8		11			925	10	* No data 1964.	695
	3,361		86		549			840	10	* No data since 1962.	625
	977		57					900		* No data 1960-1964.	609
										* No data 1957-1964.	610
220	2,533*	15.6	159 <sup>†</sup>	145		4.3	600	900	10	* No data 1962-1963. <sup>†</sup> Since 8-57.	608
347	3,952	27.9	271			3.6	610	950	10	Prev. subj. to gas inj.	606
579	6,242	20.5	519			2.7	610	950	10	Prev. subj. to gas inj.	611
494	2,615	28.6	103			3.6	540	950	10		613
95	820	11.6	109			1.9	610	950	10	Prev. subj. to gas inj.	669
211	1,906	2.4	39			4.7	610	950	10	Prev. subj. to gas inj.	670
28	76	9.3	23*			5.1	610	950		* Prev. affected by inj. from 611 & 670.	691
3,671 <sup>†</sup>	38,027	76.5	1,288			8.9	650	950	10-20-40*	Incl. data on all Franchot properties and line wells with Tidewater. <sup>†</sup> Inj. discont. in Sec. 14 10-64.	612

TABLE 11 - ILLINOIS WATERFLOOD PROJECTS

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
699	Main C	Hydroleum	Crawford	Bailey-Powden	1963	Penn	6N-12W
680	Main C	Indiana Farm Bureau	Crawford	Oak Ridge U	10-61	Benoist	17-5N-12W
681	Main C	Indiana Farm Bureau	Crawford	Oak Ridge U	10-61	Cypress	17-5N-12W
685	Main C	Indiana Farm Bureau	Crawford	Dennis Heirs U	10-59	Robinson	29,30-7N-13W
686	Main C	Indiana Farm Bureau	Crawford	C. J. Best	11-60	Robinson	20,29-7N-13W
687	Main C	Indiana Farm Bureau	Crawford	Stewart Heirs	10-60	Robinson	21-6N-13W
689	Main C	Indiana Farm Bureau	Crawford	Hulse-Allen	12-61	Robinson	12,13-7N-14W
697	Main C	Indiana Farm Bureau	Crawford	Dees	9-62	Robinson	28-7N-13W
617	Main C	Kewanee	Crawford	Wright	1-53	Robinson	23,26-6N-13W
693	Main C	Kewanee Oil	Crawford	Shilts	6-63	Robinson	8-6N-13W
619	Main C	Logan	Crawford	Alexander-Reynolds	12-51	Robinson	20-7N-12W
671	Main C	MacDonell	Crawford	Kirtland U	1-58	Robinson	5-6N-13W
672	Main C	MacDonell	Crawford	Kirtland-Dee	1-58	Robinson & Penn	5,6-6N-13W
623	Main C	Marathon	Crawford	24 Projects*†	1948	Robinson	
698	Main C	Marathon	Crawford	Thornton W F 21-M	7-63	Benoist	20-7N-13W
688	Main C	Paul D. Robinson	Crawford	Oblong*	7-52	Robinson	9-7N-13W
629	Main C	Tidewater	Crawford	Clark-Hulse	1-52	Robinson	18-7N-13W
630	Main C	Tidewater	Crawford	Birch 1	8-54	Robinson	14-6N-13W
631	Main C	Tidewater	Crawford	Birds Area	2-52	Robinson	16,20,21,28,29-5N-11W
632	Main C	Tidewater	Crawford	Barrick-Walters	3-54	Robinson	13,24-7N-13W; 18,19-7N-12W
633	Main C	Tidewater	Crawford	Good-Haws	9-57	Robinson	16,17,21,22-6N-13W
634	Main C	Tidewater	Crawford	Howard	2-52	Robinson	11-7N-13W
635	Main C	Tidewater	Crawford	Ames	10-56	Robinson	29-7N-13W
636	Main C	Tidewater	Crawford	Dennis-Hardin	8-50	Robinson	27,34-6N-13W
637	Main C	Tidewater	Crawford	Thompson	9-52	Robinson	26,27-6N-13W
639	Main C	Tidewater	Crawford	Lefever-Musgrave	2-54	Robinson	13-7N-14W
640	Main C	Tidewater	Crawford	Montgomery-Seitzinger	5-54	Robinson	15,16-5N-11W
641	Main C	Tidewater	Crawford	Stifle-Drake	6-52	Robinson	9,10-7N-13W
642	Main C	Tidewater	Crawford	Walters-Stahl	11-54	Robinson	13,14-7N-13W
668	Main C	Tidewater	Crawford	Highsmith	8-56	Robinson	20,21-6N-12W
696	Main C	Tidewater	Crawford	Walters-Stantz	6-63	Robinson	14,15-7N-13W
659	Main C	Turner	Crawford	Sanders*	8-52	Robinson	1,2,3-5N-13W; 26,34,35-6N-13W
694	Main C	Wichita River Oil	Crawford	Flynn Project	11-63	Robinson	26,35-8N-13W
692	Main C	George Wickham	Crawford	Price-Kieth-Barlow	1-62	Robinson	8,17-7N-12W
1025	Maple Grove C	Mammoth	Edwards	Maple Grove	6-61	McClosky	9,10-1N-10E
214	Martinsville	Bredar & Montgomery	Clark	Froderman & Connolly U*		Partlow	13-9N-14W
1104	Mason N	Texaco	Effingham	Mason N U	10-58	Benoist	9,10-6N-5E
509	Mattoon	Ashland	Coles	N. Mattoon U	2-61	Cypress	10,11-12N-7E
512	Mattoon	Ashland	Coles	S. Mattoon U	3-62	Cypress	34-12N-7E; 3-11N-7E
515	Mattoon	Ashland	Coles	Degler Bros Coop	12-63	Aux Vases Spar Mtn Cypress	3-12N-7E
504	Mattoon	D. Carroll	Coles	Rudy	4-59	Cypress	23-12N-7E
506	Mattoon	D. Carroll	Coles	Rudy	4-59	Spar Mtn	23-12N-7E
503	Mattoon	W. Duncan	Coles	Redman-Macke	6-59	Cypress	23-12N-7E
507	Mattoon	W. Duncan	Coles	Redman-Macke	6-59	Spar Mtn	23-12N-7E
511	Mattoon	Walter Duncan	Coles	Ohm	8-62	Cypress	2,3-11N-7E
514	Mattoon	Walter Duncan	Coles	Arthur-Oliver	2-63	Spar Mtn	2-12N-7E
500	Mattoon	Humble	Coles	Mattoon	5-52	Cypress Spar Mtn	2,11-11N-7E; 23,25,26-12N-7E
501	Mattoon	Noknil	Coles	Mattoon*	11-50	Spar Mtn	22-12N-7E
4282	Maunie N C	Ashland	White	Ribeyre Island U	5-59	Waltersburg Tar Springs	19,30-5S-14W
4342	Maunie N C	Herndon	White	*	6-60	Aux Vases	25,36-5S-10E
4328	Maunie N C	Kirby	White	Coop*	8-61	Spar Mtn	23-5S-10E
4272	Maunie N C	G. C. Schoonmaker	White	Maunie W U	10-58	Aux Vases	35-5S-10E; 2,3-6S-10E
4273	Maunie S C	B. Podolsky	White	Arnold U*	6-56	Cypress	18-6S-11E
4352	Mill Shoals	R. C. Davoust	White	McIntosh U	6-62	Aux Vases	31-3S-8E; 6-4S-8E
4363	Mill Shoals	Shell	White	Mill Shoals U	8-62	Aux Vases	30-3S-8E
4337	Mill Shoals	Texaco	White	Mill Shoals Coop	9-61	Aux Vases	31,32-3S-8E
1506	Mill Shoals	Sam Tipps	Hamilton	B. R. Gray*, Trustee	5-52	Aux Vases	1-4S-7E
3918	Mt. Carmel	D. H. Lovelace	Wabash	Wabash U*	10-57	McClosky	5-1S-12W
3922	Mt. Carmel	Shell	Wabash	Mt. Carmel U	7-54	Cypress	17,18-1S-12W
3887	Mt. Carmel	Skiles	Wabash	Clay Moeller	11-63	U. Cypress L. Cypress	5-1S-12W
3888	Mt. Carmel	Skiles	Wabash	Palmyra U	11-63	U. Cypress	5-1S-12W
3889	Mt. Carmel	Skiles	Wabash	Palmyra U	11-63	L. Cypress	5-1S-12W
3890	Mt. Carmel	Skiles	Wabash	Palmyra U	11-63	Biehl	5-1S-12W

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
			2								
143	383	32.7*	49*	11*	21*	5.4	910	886	10	* No data 1964.	699
664	2,011	*	*	*	*	15.1	910	1,590	10	* Incl. 681.	680
3,224	14,973	80.3	455	107	1,360*	6.4	625	1,470	10	* Incl. with 680.	681
360	1,100	10.6	63	12*	38*	7.0	625	950	10	* Est.	685
460	1,933*	36.1	221	16†	70†	6.6	550	950	10	* Est.	686
28	144	6.9	90	3*	9*	0.8	550	950	10	* Op. adj. †Est.	687
255	543	11.5	22	3*	6*	8.3	550	936	10	* Est.	689
539	4,999	28.4	171*	474	2,527	6.6	625	930	10	* Est.	697
							550	900	10	Prev. subj. to gas inj. *Incl. prim. prod.	617
267	435	2.1	4	17	24	10.4	550	900			693
450	5,526	36.3	467	115	1,371	1.7	420	940	5 & 10		619
539	2,465	17.6	89	158	492	4.6	306	800	10		671
980	3,880	97.5	290	710	1,826	3.7	370	913	10		672
29,406	231,804	2,044.4	19,099	10,663	117,643	4.5		920	10	* Wilkin 2-R, Hughes 3-R, Brubaker 4-R, Hargis 7-R, Reed 9-R, Drake 10-R, Fawley 12-R, Eaton 15-R, Henry 19-R, Wilson 20-R, Arnold 21-R, Price 22-R, Wood 27-R, York 28-R, Barnes 30-R, Kirtland 33-R, Shilts 35-R, Mann 39-R, Hamilton 40-R, Shire 41-R, Fry 44-R, "Haines abd. 1963," Cooley 11-R, Carlton 42-R, Bond 36-R. †Incl. 620, 621, 622.	623
568	801 402	60.2	62 24	263	264	22.2		1,340 980	20		698
										* No data 1964. Formerly W. S. Appling.	688
474	5,101	9.8	291	375	3,486	3.9	713	910	7	Prev. subj. to gas inj.	629
366	2,406	39.4	316	217	934	3.0	500	881	10	Prev. subj. to gas inj.	630
2,305	16,642	98.1	1,014	1,432	8,118	4.2	700	950	10	Subj. to gas inj. 1946-1952.	631
1,888	13,200	119.9	1,164	846	4,341	3.9	540	950	10	Prev. subj. to gas inj.	632
584	3,207	39.8	400	413	1,619	3.7	700	930	10	Prev. subj. to gas inj.	633
441	2,681	23.6	306	401	2,033	5.4	565	950	10	Prev. subj. to gas inj. 1935-1953.	634
665	2,979	27.0	157	425	1,727	4.5	630	980	10	Prev. subj. to gas inj.	635
489	6,380	19.5	704	377	4,619	3.5	480	875	10	Subj. to gas inj. 1932-1950.	636
76	1,321	11.9	191	133	1,225	1.5	500	860	10	Prev. subj. to gas inj. 1932-1950.	637
427	2,466	18.2	353	219	1,091	3.4	710	910	10	Subj. to gas inj. 1934-1948	639
143	1,453	3.8	64	108	735	3.1	680	979	10	Subj. to gas inj. 1934-1948.	640
701	4,942	49.6	359	525	2,823	5.4	700	980	10 & 40	Subj. to gas inj. since 1934.	641
105	945	4.7	110	65	690	2.6	575	987	10	Subj. to gas inj. since 1934.	642
468	1,575	22.5	128	199	727	4.0	600	920	10	Subj. to gas inj. 1934-1948.	668
175	259	11.9	14	60	64	7.0	630	950	10		696
	4,804		80					880	10	* No data 1959-1964.	659
200	204	17.2	24	4	5	2.6	1,000	950	10		694
381	1,033	17.3	49	220	561*	52.2	700	1,050	10	* Op. adj.	692
*	*	36.0	105	159	276			3,225		* Unknown; dump flood.	1025
	3,600		111					487	3.6	* No data 1960-1964.	214
257	1,564	12.7	105	167	873	16.0	1,320	2,280	10		1104
232	1,079	15.6	75*	71	110	7.9	950	1,800	10	* Incl. prim. prod.	509
1,042	2,617	296.4	414	236	316	3.3	633	1,800	20		512
								1,910	10		
								1,980	10		
135	137	11.3	12	18	18	18.5	680	1,722			515
								1,920			
21	133	3.7	15*	19	39	1.6	900	1,790	10	* Since 1-62.	504
45	266	8.4	31	36	85	3.0	900	1,970	10		506
6	68	*	*	*	*	1.7	1,000	1,770	20	* Incl. with 507.	503
39	212	5.1*	28*	33*	166*	5.9	850	1,970	20	* Incl. 503.	507
163	422	35.6*	47*	2*	5*	9.3	800	1,840	20	* Prod. comingled	511
112	278					6.3	800	1,990			
251	415	19.2	27*	9	18	13.7	800	1,930	10	* Incl. prim prod.	514
1,532	14,751	191.5	1,481	848	6,607	6.5	786	1,750	20		500
								1,950			
	249		4		87					* No data 1957-1964.	501
78	732	9.4	169	75	294	1.7	1,500	2,305	10		428
								2,345			
										* No data 1960-1964.	4342
56	171	4.8	26	33	62	12.7	1,300	3,035	10	* Coop with Lovelace.	4328
326	2,368	10.3	171			5.7	2,300	2,950	10		4272
58	280	18.4	61	18	34	5.7	2,000	2,590	10	* Incl. Brown-Alford U effec- tive 12-1-63.	4273
72	1,484	96.2	150	347	524	12.7	1,600	3,220	18		4352
1,048	2,483	93.6	193	502	656	13.0	392	3,200	10		4363
309	997	34.4	92	155	213	14.8	1,500	3,200	10		4337
	2,461		341		1,144			3,245	20	* No data 1962-1964.	1506
	3		0		3			2,309		* No data 1959-1964.	3918
569	9,038	62.3	1,014	561	5,812	5.7	600	2,075	20		3922
43	49	4.0	4	12	12	7.8	950	1,995			3887
								2,045			
96	105	*	*	*	*	5.5	600	1,990		* Incl. with 3890.	3888
104	116	*	*	*	*	7.9	700	2,050		* Incl. with 3890.	3889
26	30	2.0*	2*	58*	65*	8.7	1,200	1,510		* Incl. 3885, 3888, 3889.	3890



Project no.	General information						
	C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
3923	Mt. Carmel	Skiles	Wabash	Chapman-Courter U	1-55	Cypress	7,18-1S-12W
3924	Mt. Carmel	Skiles	Wabash	W. Mt. Carmel*	10-55	Tar Springs	18,19-1S-12W
3977	Mt. Carmel	Skiles	Wabash	W. Mt. Carmel	9-61	Cypress	18,19-1S-12W
3897	Mt. Carmel	Superior	Wabash	R. V. Z. U	6-63	Cypress	8,9-1S-12W
3983	Mt. Carmel	Superior	Wabash	Mt. Carmel N U	6-49	Biehl	4,9-1S-12W
3984	Mt. Carmel	Superior	Wabash	Mt. Carmel N U	8-61	Cypress	4,9-1S-12W
3925	Mt. Carmel	Texaco	Wabash	Stein	2-52	Tar Springs	5,8-1S-12W
3990	Mt. Carmel	C. C. White	Wabash	Buchanan	4-60	Cypress	33-1N-12W
3926	New Harmony C	Ashland	Wabash	Maud N	4-56	Benoist	5,6,7,8-2S-13W
3927	New Harmony C	Ashland	Wabash	Ravenstein	5-57	Benoist	32-1S-13W
4316	New Harmony C	Bell Bros	White	Skiles	8-61	Cypress	16-4S-14W
						Benoist	
						Aux Vases	
4218	New Harmony C	Calstar	White	Ford	1-56	Aux Vases	20,21,22-4S-14W
4231	New Harmony C	Calstar	White	M. S. Donald*	10-56	Aux Vases	21,28-4S-14W
4305	New Harmony C	Calstar	White	Ford "A"	11-60	Tar Springs	16,21-4S-14W
4306	New Harmony C	Calstar	White	Ford "A"	11-60	Cypress	16,21-4S-14W
4307	New Harmony C	Calstar	White	Ford "A"	11-60	Benoist	16,21-4S-14W
4308	New Harmony C	Calstar	White	Ford "A"	11-60	Aux Vases	16,21-4S-14W
4310	New Harmony C	Calstar	White	Ford "A"	11-60	Waltersburg	16,21-4S-14W
4329	New Harmony C	Calstar	White	M. S. Donald*	9-61	Benoist	21,28-4S-14W
3980	New Harmony C	Carroll	Wabash	Friendsville Field	2-61	Cypress	11-1S-13W
3928	New Harmony C	Cities Service	Wabash	Brines U	8-56	Benoist	20,21,28,29-1S-13W
3985	New Harmony C	Cities Service	Wabash	Post-Ley U	3-61	Biehl	3-1S-13W
3986	New Harmony C	Cities Service	Wabash	Post-Ley U	3-61	Cypress	3-1S-13W
4220	New Harmony C	Clark & Clark*	White	Maunie N U	10-57	Aux Vases	18,19-5S-14W
3893	New Harmony C	Continental	Wabash	Maud U	11-63	Waltersburg	34,35-1S-13W
						U. Cypress	
3960	New Harmony C	Continental	Wabash	A. E. Shultz "A"	3-59	Benoist	8,17-2S-13W
3961	New Harmony C	Continental	Wabash	A. E. Shultz "A"	3-59	U. Cypress	8,17-2S-13W
3995	New Harmony C	Continental	Wabash	J. W. Reisinger	6-62	Cypress	4-2S-13W
3963	New Harmony C	Coy	Wabash	Kerwin U	10-59	Biehl	15-3S-14W
3988	New Harmony C	Coy	Wabash	Kerwin U	10-59	Benoist	15-3S-14W
3989	New Harmony C	Coy	Wabash	Kerwin U	10-59	Aux Vases	15-3S-14W
4366	New Harmony C	Coy	White	B. R. Gray	1-63	Aux Vases	17-4S-14W
4367	New Harmony C	Coy	White	B. R. Gray	1-63	Benoist	17-4S-14W
4368	New Harmony C	Coy	White	B. R. Gray	1-63	Cypress	17-4S-14W
3994	New Harmony C	B. R. Duncan	Wabash	Dunkel #2	10-62	Cypress	11-1S-13W
4313	New Harmony C	W. Duncan	White	Hughes	11-60	Aux Vases	17-4S-14W
4314	New Harmony C	W. Duncan	White	Hughes	11-60	Benoist	17-4S-14W
4315	New Harmony C	W. Duncan	White	Hughes	11-60	Cypress	17-4S-14W
4371	New Harmony C	Farrar Oil	White	Ford	2-63	Aux Vases	21-4S-14W
4227	New Harmony C	Forest	White	Bowman's Bend U	12-53	Tar Springs	15,16,21,22-5S-14W
3959	New Harmony C	T. W. George	Wabash	Keensburg U*	11-58	Cypress	9-2S-13W
3929	New Harmony C	G. R. Co*	Wabash	Shultz	7-51	L. Cypress	7-3S-13W
3930	New Harmony C	G. R. Co*	Wabash	Shultz	5-52	U. Cypress	7-3S-13W
4224	New Harmony C	Herndon	White	Calvin	11-52	Aux Vases	8-4S-14W
4225	New Harmony C	Herndon	White	Calvin	1953	Benoist	8-4S-14W
4226	New Harmony C	Herndon	White	Calvin	6-57	Cypress	8-4S-14W
3891	New Harmony C	Indiana Farm Bureau	Wabash	Schrodt Station S U	10-63	Cypress	3-2S-13W
3892	New Harmony C	Indiana Farm Bureau	Wabash	Schrodt Station-Middle U	10-63	Cypress	34,35-1S-13W
4300	New Harmony C	Indiana Farm Bureau	White	Reeves U	1-61	Cyp. A.V., & McCl	28-3S-14W
4303	New Harmony C	B. Kidd	White	A. Gray "H"	4-60	Aux Vases	20-4S-14W
3896	New Harmony C	Luboil	Wabash	Helm	4-61	Tar Springs	22-3S-14W
3936	New Harmony C	Luboil	Wabash	Helm	11-52	Cypress "A"	22-3S-14W
3937	New Harmony C	Luboil	Wabash	Helm	10-54	Cypress "C"	22-3S-14W
3938	New Harmony C	Luboil	Wabash	Helm	12-51	Aux Vases	22-3S-14W
3939	New Harmony C	Luboil	Wabash	Helm	12-51	Benoist	22-3S-14W
3940	New Harmony C	Luboil	Wabash	Helm	12-50	Waltersburg	22-3S-14W
3965	New Harmony C	Luboil	Wabash	Helm	6-59	Biehl	22-3S-14W
4276	New Harmony C	Mabee	White	O. Smith 1, 4, 11*		Cypress	4,16-4S-14W
						Benoist	
						Aux Vases	
3981	New Harmony C	Mobil	Wabash	G. A. Sturman	3-61	Biehl	10-1S-13W
						& Cypress	
4274	New Harmony C	Mobil	White	J. J. Bond	8-58	Cypress,	8-4S-14W
						Paint Creek	
						& Aux Vases	
3982	New Harmony C	Mt. Carmel	Wabash	Friendsville U	2-61	Cypress	2,11-1S-13W
3895	New Harmony C	NAPCO	Wabash	Coale-Epler U	4-63	Waltersburg	6-2S-13W
4275	New Harmony C	Pure	White	Calvin C	9-58	Tar Springs	9,16-4S-14W
						Cypress	
						Paint Creek	
						Aux Vases	



Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
99	1,225	6.5	286	71	652	4.7	950	2,050			3923
0	895	0.0	138	0	513			1,729	10	Temp. abd. 7-63.	3924
95	144	10.2	10	45	82	12.9	1,200	2,046			3977
135	145	11.7	19	6	15	8.4	930	2,010			3897
249	1,400	71.7*	244*	90*	475*	13.1	1,260	1,450	10	* Incl. 3984.	3983
238	1,036	*	*	*	*	22.6	1,400	1,950		* Incl. with 3983.	3984
17	1,165	0.4*	93*	0*	678*	2.6	1,000	1,710	10	* Incl. 3875.	3925
59	182	7.2	22*	6	12	8.1	700	2,000	10	* Since 1-61.	3990
43	554	5.5	135*	19	72†	2.9	1,440	2,650	20	* Incl. prim. prod. †Since 1-61.	3926
6	97	2.7	55	1	5*	2.5	1,440	2,650		* Since 1-61.	3927
225	792	20.6	79*	113	202	10.3	1,250	2,600	20	* Excl. 1963.	4316
330	3,292	23.6	444*			4.9		3,000			
								2,840	20	* Incl. inj. and prod. since pilot flood 3-53.	4218
92	1,425	15.1†	206†	165†	964†	4.4	1,200	2,300	10	* Former op. Sinclair. †Incl. 4329.	4231
51	238	64.0*	283*			15.1		2,200	20	* Incl. 4306, 4307, 4308, 4310.	4305
80	753	*	*			4.1		2,580	20	* Incl. with 4305.	4306
29	162	*	*			5.4		2,700	20	* Incl. with 4305.	4307
227	1,023	*	*			8.0		2,820	20	* Incl. with 4305.	4308
26	133	*	*			4.3		2,140	20	* Incl. with 4305.	4310
92	437	†	†	†	†	9.7	1,200	2,695	10	* Former op. Sinclair. †Incl. with 4231.	4329
63	206	21.0	68	27	40	3.5	850	2,290	10		3980
413	6,736	47.3	1,381	412	4,470*	2.0	1,000	2,600	10	* Op. adj.	3928
103	570	10.0	52	18	33	11.7	1,250	1,710	10		3985
72	472*	11.0	111	19	94	7.1	1,350	2,310	10	* Op. adj.	3986
	929		150		190			2,900	10	* No data since 1959.	4220
254	277	8.0	8	3	3	17.4	1,250	1,937	10		3893
								2,298			
136	588	34.8*	282*	95*	447*	4.6	2,200	2,540	10	* Incl. 3961.	3960
77	977	*	*	*	*	8.8	2,200	2,424	10	* Incl. with 3960.	3961
21	46	2.3	5	21	46	6.2	0	2,413	10		3995
346	2,097	109.4*	885*	296*	1,437*	8.8	1,420	1,800	20	* Incl. 3988 & 3989.	3963
312	1,791	*	*	*	*	4.1	1,620	2,700	20	* Incl. with 3963.	3988
1	90	*	*	*	*	0.2	1,575	2,800	20	* Incl. with 3963.	3989
204	395	*	*	*	*	6.9	1,450	2,800	20	* Incl. with 4367.	4366
126	241	82.1*	154*	182*	226*	12.8	1,150	2,790	20	* Incl. 4366, 4368.	4367
169	345	*	*	*	*	7.7	1,325	2,575	20	* Incl. with 4366.	4368
35	61	6.0	10	2	2	6.4	1,000	2,100			3994
451	1,091	*	*	*	*	17.1	800	2,820	10	* Incl. with 4315	4313
217	715	*	*	*	*	7.4	1,200	2,690	10	* Incl. with 4315. Prev. subj. to gas inj.	4314
304	853	87.3*	350*	548*	1,038*	12.3	900	2,560	10	* Incl. 4313 & 4314. Prev. subj. to gas inj.	4315
59	105	27.5	43	5			1,200				4371
464	6,504	54.7	1,645			13.0	760	2,260			4227
983	4,710	109.3	696	606	1,979	13.6	1,100	2,420	10	* Carried as pressure maintenance project before 1961.	3959
	2,693		126		1,982			2,600	10	* No data 1961-1964.	3929
	816		44		356			2,500	10	* No data 1961-1964.	3930
532	9,483	64.6*	2,671*	533*		8.1	1,440	2,800	10	* Incl. 4225, 4226.	4224
82	2,472	*	*	*		3.7	1,440	2,660	10	* Incl. with 4224.	4225
286	957	*	*	*		6.5	1,440	2,550		* Incl. with 4224.	4226
204	223	7.2	10	1	1	11.6	1,250	2,320	10		3891
110	142	28.6	30	1	1	5.0	1,250	2,320	10		3892
381	1,434	12.8	51	3	11	7.9	1,200	2,535	20		4300
13	52	14.2	50*			5.1	1,300	2,844	20	* Incl. prim. prod.	4303
102	315	*	*	*	*	3.5	1,530	2,150		* Incl. with 3938.	3896
60	1,628	*	*	*		3.4	1,530	2,520		* Incl. with 3938.	3936
156	2,024	*	*	*		6.1	1,530	2,550		* Incl. with 3938.	3937
325	5,319	117.6*	3,517*	264*		3.0	1,530	2,640		* Incl. 3896, 3939, 3937, 3936, 3940, 3965.	3938
310	6,842	*	*	*		2.3	1,530	2,640		* Incl. with 3938.	3939
105*	3,306*	†	†	†		4.4	1,500	2,115		* Inj. discontinued 9-64. †Incl. with 3938.	3940
58	432	*	*	*		5.3	1,525	1,800		* Incl. with 3938.	3965
	446		30				1,100	2,546		* No data 1961, 1964.	4276
								2,670			
								2,807			
64	193	9.0	62	8	40	8.0		1,780	10		3981
								2,335			
424	2,226	46.0	326*	161	1,033	4.8		2,585	10	* Incl. prim. prod. since 8-58.	4274
								2,705			
								2,820			
275	980	63.1	283*	192	340	6.4	1,350	2,300	10	* Incl. prim. prod.	3982
109	195	34.3	115*	68	112	6.2	1,500	2,075	10	* Incl. prim. prod.	3895
919	5,729	108.5	1,451	798	2,649	4.3	1,200	2,208	20		4275
								2,579			
								2,694			
								2,812			

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
3967	New Harmony C	R. K.	Wabash	Cowling U	8-60	Cypress	23,25,26,35,36-2S-14W
4338	New Harmony C	C. F. Rebstock	White	Gray*	3-60	Aux Vases	20-4S-14W
4339	New Harmony C	C. F. Rebstock	White	Gray*	3-60	Benoist	20-4S-14W
3962	New Harmony C	Rossi Oil	Wabash	4 W	10-59	Cypress	26-1S-13W
4214	New Harmony C	J. Simpkins	White	Hon-Bump-Crawford	9-56	Aux Vases	32,33-3S-14W; 5-4S-14W
4215	New Harmony C	J. Simpkins	White	Hon-Bump-Crawford	9-56	Benoist	32-3S-14W
4216	New Harmony C	J. Simpkins	White	Hon-Bump-Crawford	9-56	Cypress	33-3S-14W
4320	New Harmony C	J. Simpkins	White	Boultinghouse	11-59	Aux Vases	9,16,17-4S-14W
4321	New Harmony C	J. Simpkins	White	Boultinghouse	11-59	Benoist	16,17-4S-14W
4322	New Harmony C	J. Simpkins	White	Boultinghouse	11-59	Cypress	16,17-4S-14W
4323	New Harmony C	J. Simpkins	White	Boultinghouse	11-59	Paint Creek	16-4S-14W
4324	New Harmony C	J. Simpkins	White	Boultinghouse	11-59	Tar Springs	16-4S-14W
4317	New Harmony C	Skelly	White	Calvin-Griffith	4-61	Cypress Benoist Aux Vases	20-4S-14W
1016	New Harmony C	Skiles	Edwards	Siebert Bottoms	8-58	Cypress	34-2S-14W
3931	New Harmony C	Skiles	Wabash & Edwards	Siebert Bottoms	10-51	Bethel	2,3,10-3S-14W; 34-2S-14W
3932	New Harmony C	Skiles	Wabash	E. Maud	4-52	Bethel	4,5-2S-13W; 32,33-1S-13W
3933	New Harmony C	Skiles	Wabash	E. Maud	11-52	Cypress	4,5-2S-13W; 32,33-1S-13W
3934	New Harmony C	Skiles	Wabash	W. Maud U	10-50	Bethel	5-2S-13W; 32-1S-13W
3956	New Harmony C	Skiles	Wabash	Cowling-Raber	5-57	Benoist	17-2S-13W
3957	New Harmony C	Skiles	Wabash	Broster "F"	10-56	Cypress	35-2S-14W
3974	New Harmony C	Skiles	Wabash	Friends Grove U	3-61	Cypress	3-1S-13W; 34-1N-13W
3975	New Harmony C	Skiles	Wabash	Friends Grove U	3-61	Biehl	3-1S-13W; 34-1N-13W
3976	New Harmony C	Skiles	Wabash	Friends Grove U	3-61	Jordan	3-1S-13W; 34-1N-13W
4286	New Harmony C	Skiles	White	Calvin-Griffin C (Potter)	9-59	Benoist	8-4S-14W
4326	New Harmony C	Skiles	White	Calvin-Griffin C	6-60	Aux Vases	8-4S-14W
3935	New Harmony C	Sohio	Wabash	Updegraff "A"	10-55	Cypress	14-3S-14W
3997	New Harmony C	Sohio	Wabash	Updegraff "A"	3-62	Aux Vases	14-3S-14W
4294	New Harmony C	Sohio	White	Gray "C" & "H"	5-60	T.S., Cyp, Ben & A.V.	17,20,21-4S-14W
4233	New Harmony C	Sun	White	Ford "B"*	3-53	Aux Vases	21-4S-14W
4293	New Harmony C	Sun	White	Ford "B"	2-60	Cypress	21-4S-14W
4350	New Harmony C	Sun	White	Ford "B"	9-62	Bethel	21-4S-14W
4235	New Harmony C	Superior	White	Kern-Hon U	2-54	U. Tar Springs	32,33-4S-14W
4236	New Harmony C	Superior	White, Ill.	New Harmony Field U	11-56	Aux Vases	3,4,5-5S-14W
4237	New Harmony C	Superior	Posey, Ind.	New Harmony Field U	11-56	Bethel	26,27,28,29,32,33,34-4S-14W
4238	New Harmony C	Superior	White, Ill.	Waltersburg Sand U	8-46	Waltersburg	3,4,5-5S-14W
4280	New Harmony C	Superior	Posey, Ind.	Ford U	3-59	Aux Vases	26,27,28,29,32,33,34-4S-14W
4312	New Harmony C	Superior	White, Ill.	Fitton "A" U	3-60	Aux Vases	7,8-5S-14W
3948	New Harmony C	A. K. Swann	Wabash	Heil	11-55	Cypress	29-4S-14W
4284	New Harmony C	Texaco	White	M. E. Glaze Coop	12-59	Paint Creek	7,18-3S-13W
4285	New Harmony C	Texaco	White	M. E. Glaze Coop	12-59	Cypress	8,17-4S-14W
4290	New Harmony C	Texaco	White	M. E. Glaze Coop	12-59	Cypress	8,17-4S-14W
4291	New Harmony C	Texaco	White	M. E. Glaze Coop	12-59	Tar Springs	8,17-4S-14W
4333	New Harmony C	Texaco	White	Bramlett	11-61	L. Tar Springs	17-4S-14W
4334	New Harmony C	Texaco	White	Bramlett	11-61	Cypress	17-4S-14W
4335	New Harmony C	Texaco	White	Bramlett	11-61	Paint Creek	17-4S-14W
4380	New Harmony C	Texaco	White	M. E. Glaze Coop	6-63	Cypress	8,17-4S-14W
4381	New Harmony C	Texaco	White	M. E. Glaze Coop	7-63	Paint Creek	8,17-4S-14W
4241	New Harmony C	Tidewater	White	O. R. Evans	10-49	Paint Creek	Aux Vases
4242	New Harmony C	Tidewater	White	O. R. Evans	10-49	Aux Vases	4-4S-14W
4243	New Harmony C	Tidewater	White	O. R. Evans	1-50	Biehl	4-4S-14W
4311	New Harmony C	Tidewater	White	O. R. Evans	10-49	McClosky	4-4S-14W
4354	New Harmony C	Tidewater	White, Ill.	Wabash Riverbed U*	7-60	Cypress	4-4S-14W
4283	New Harmony C	J. H. Vandenbark	White	Calvin-Hon U*		Cypress	33-3S-14W
3949	New Harmony C	West*	Wabash	C. W. Raber	10-56	Aux Vases	9-4S-14W
4341	New Harmony C	West*	White	D. Evans	10-49	Biehl	Cypress
4289	New Harmony S (Ind.)	Indiana Farm Bureau	White, Ill.	Mink Island U	7-59	Aux Vases	Tar Springs
4319	New Harmony S (Ind.)	Indiana Farm Bureau	Posey, Ind.	Mink Island U	8-61	Benoist	Aux Vases
4345	New Harmony S	Indiana Farm Bureau	White, Ill.	Mink Island U	12-62	Cypress	19-2S-13W; 24-2S-14W
4346	New Harmony S	Indiana Farm Bureau	Posey, Ind.	Mink Island U	10-62	Biehl	4-4S-14W
4347	New Harmony S	Indiana Farm Bureau	White	Mink Island U	10-62	McClosky	22-5S-14W
4351	New Haven C	Ryan Co	White	Wasem U	7-62	Hardinsburg	22-5S-14W
						Degonia	22-5S-14W
						Mansfield	22-5S-14W
						Palestine	22-5S-14W
						L. Tar Springs	24-7S-10E

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
384	1,558 814† 150	68.1 †	275 105† †	108 †	216 454† †	8.0	2,300	2,550 2,850 2,720	10 20 20	* No data 1964. †Incl. 4339. * No data 1964. †Incl. with 4338.	3967 4338 4339
48	312	12.9	80*	48	312	9.4	600	2,303	10	* Incl. prim. prod.	3962
130	666*	1.8	2	79	145	2.0 Avg.		2,578 2,672 2,871 2,566	10	* Op. adj.	4317
0*	62	0.0	0	0	0					* Temp. abd.; inj. discontinued 2-17-62.	1016
178	3,388	30.1	680	130	1,092	1.9	1,500	2,680	20		3931
83	1,493	15.1	343	64	586	4.4	1,400	2,520	20		3932
245	2,695	12.3	242	160	1,284	42.0	500	2,400			3933
25	2,123	8.1	447	1	377	1.9	1,475	2,620	20		3934
11	83	2.8	14	0	22	2.0	1,475	2,549			3956
16	172	1.8	35	8	32	1.7	1,500	2,531			3957
96	495	7.4	29	25	125	4.0	1,350	2,269			3974
133	677	15.7	79	144	644	5.1	1,350	1,716			3975
0*	40	0.0						1,761		* Temp. abd. since 2-62.	3976
1*	285*	2.7	25	14	159	0.2	1,200	2,680	20	* Inj. well temp. abd. 12-64.	4286
53	186	25.3	76	83	157	3.6	1,600	2,855			4326
0*	3,391	50.5	1,430	994	5,442		0	2,500		* Inj. discontinued 1-63.	3935
32	204	13.1	20*	0	4	8.8		2,800		* Incl. prim. prod.	3997
853	3,581	152.3	655*	488	1,046					* Incl. prim. prod. Cyp prev. subj. to gas inj.	4294
25	389	5.6	152	54	407	6.8	1,560	2,885	10	* Coop. flood with Calstar.	4233
34	398	7.4	9*	47	58	10.2	1,560	2,600		* Incl. prim. prod.	4293
75	203	2.5	5*	23	35	22.7	1,560	2,700	10	* Incl. prim. prod.	4350
218	1,901	11.9	529	31	848	44.8	1,400	2,250			4235
1,584	14,600	560.7*	7,542*	3,221*	17,564*	7.8	1,450	2,830	20	* Incl. 4237.	4236
2,621	28,808	*	*	*	*	6.8	1,450	2,710	20	* Incl. with 4236.	4237
1,752	30,992	59.7	6,554	958	11,332	37.2	1,500	2,206		Prev. subj. to gas inj.	4238
253	2,395	76.2	520	151	772	6.8	1,700	2,872	10		4280
141	754	11.4	97	48	311	24.2	1,500	2,888			4312
128	1,365	36.3	383	55		4.7	1,300	2,450			3948
189	1,849	*	*	*	*	2.6	1,600	2,670	10	* Incl. with 4291.	4284
34	299	*	*	*	*	1.7	1,650	2,570	10	* Incl. with 4291.	4285
76	293	*	*	*	*	5.8	1,600	2,215	10	* Incl. with 4291.	4290
139	872	49.2*	521*	473*	1,742*	3.9	1,600	2,825	10	* Incl. 4284, 4285, 4290, 4380, 4381.	4291
48	122	9.5*	18*	68*	181*	8.2	1,500	2,296	10	* Incl. 4334 & 4335.	4333
96	208	*	*	*	*	5.3	1,500	2,670	10	* Incl. with 4333.	4334
96	245	*	*	*	*	5.3	1,500	2,670	10	* Incl. with 4333.	4335
18	43	*	*	*	*	1.4	1,600	2,570	10	* Incl. with 4291.	4380
95	157	*	*	*	*	7.1	1,500	2,670 2,825	10	* Incl. with 4291.	4381
496*	6,000*	38.5*	546*	248*	2,141*	2.1	1,580	2,400	20	* Incl. 4242, 4243, 4311.	4241
*	*	*	*	*	*	*	*	1,500	20	* Incl. with 4241.	4242
*	*	*	*	*	*	*	*	2,500	*	* Incl. with 4241. Prev. subj. to gas inj.	4243
*	*	*	*	*	*	*	*		20	* Incl. with 4241.	4311
139	764	50.5	180	97	462	2.2	1,900	1,500 1,800 2,400	30	* Parts of this flood are in Indiana.	4354
	3,094		253		2,073	4.5	1,200	2,350 2,550 2,800 2,400	20	* No data 1964.	4283
2,328	10,769	768.4*	53 3,119*	62	384†	7.2	1,200	2,050	10	* No data 1957-1964. * No data 1962-1964.	3949 4341
320	1,077	*	*	4		3.8	1,200	2,305	10	* Incl. 4319, 4345, 4346, 4347. †Excl. 1961-1962.	4289 4289
278	506	*	*	3†			1,200			* Incl. with 4289. †Incl. 4347.	4345
85	157	*	*	2			1,200			* Incl. with 4289.	4346
207	422	*	*	†			1,200			* Incl. with 4289. †Incl. with 4347 4345.	4347
72*	183	2.2	15†	35	101	39.9	1,525	2,135	10	* No inj. Jan. through May, or Dec. †Op. adj.	4351



Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
4247	New Haven C	Sinclair	White	New Haven U*	7-54	Cypress	17-7S-11E
4248	New Haven C	Sinclair	White	New Haven U*	7-54	Tar Springs	17-7S-11E
4278	New Haven C	Sinclair	White	G. N. Boetticher	8-59	Cypress	19-7S-11E
2014	Oakdale	Texaco	Jefferson	Green-Vanderheid U	8-61	Aux Vases	12-2S-4E
223	Oak Point	M. & E. Drlg	Clark	B. Finney*	10-58	Aux Vases	31-9N-14W
000	Old Ripley	Cahill & Smith	Bond	Ripley U*	9-57	Penn	21,28-5N-4W
3426	Olney C	Bell Bros	Richland	Dundas S U	9-63	Spar Mtn	3,10-4N-10E
1914	Olney C	Gulf	Jasper	O. Miller-Eunice	5-54	McClosky	23-5N-10E
1903	Olney C	Ill. Lease Operating*	Jasper	Bessie	5-54	McClosky	23-5N-10E
3408	Olney C	Texaco	Richland	E. Olney U	3-51	McClosky	23,24,25,26-4N-10E
3420	Olney C	Texaco	Richland	Olney	11-46	McClosky	22,27-4N-10E
307	Oskaloosa	Texaco	Clay	Oskaloosa U	1-53	Benoist	26,27,34,35-4N-5E
341	Oskaloosa	Texaco	Clay	Oskaloosa U	12-63	McClosky	26,27,34,35-4N-5E
342	Oskaloosa	Texaco	Clay	Oskaloosa U	12-63	Aux Vases	26,27,34,35-4N-5E
3424	Parkersburg C	Continental	Richland	Koertge "B"*	9-59	Benoist	30-2N-14W
3409	Parkersburg C	Marathon	Richland	Parkersburg U	3-55	McClosky	29-2N-14W
1017	Parkersburg C	V. T. Drlg	Edwards	Parkersburg U*	2-59	U. Cypress L. Cypress	6-1N-14W; 31-2N-14W
308	Passport	Shakespeare	Clay	Stanley-Hinterscher-Malin U	9-57	McClosky	12-4N-8E
327	Passport	Shakespeare	Clay	Passport U	7-58	McClosky	11,12,14-4N-8E
3417	Passport S	Continental	Richland	Passport S U*	8-59	Cypress	18-4N-9E
2601	Patoka	Karchmer	Marion	Patoka Benoist	9-43	Benoist	20,21,28,29-4N-1E
2602	Patoka	Karchmer	Marion	Patoka Rosiclare U	1948	Spar Mtn	21,28,29-4N-1E
2603	Patoka	Karchmer	Marion	Stein U	8-51	Cypress	28-4N-1E
2614	Patoka	Kewanee	Clinton & Marion	W. Patoka Trenton U	6-61	Trenton	1-3N-1W; 6-3N-1E; 31,32-4N-1E
4250	Phillipstown C	Bayview	White	Grayville U	8-54	Cypress	20,29-3S-14W
4249	Phillipstown C	C. E. Brehm	White	Phillipstown U "B"	1-54	Cypress	19-4S-14W; 19-4S-11E
4251	Phillipstown C	British American	White	N. Calvin U*	6-51	Penn	31-3S-14W
4344	Phillipstown C	Coy	White	Green	11-62	Benoist	30-3S-11E
4298	Phillipstown C	Eason	White	Clark Benoist U	6-60	Aux Vases	30-4S-11E
4373	Phillipstown C	V. R. Gallagher	White	Cleveland Tar Springs U	10-63	Tar Springs	25-4S-10E
4343	Phillipstown C	R. A. Harris	White	Seifried	5-62	Biehl	30-3S-11E
4370	Phillipstown C	Harris Drlg	White	Seifried W F	1-63	Benoist	30-3S-11E
4369	Phillipstown C	E. H. Morris Estate	White	Morris A & B	8-63	Cyp, Beth	19,30-3S-11E
4253	Phillipstown C	Phillips	White	Flora U	9-53	Degonia	24-4S-10E
4255	Phillipstown C	Phillips	White	Phillipstown U	10-57	Benoist Aux Vases	30-4S-11E
4349	Phillipstown C	Royalco	White	Phillipstown U	9-62	Deg, T.S.	1-5S-10E; 6-5S-11E
4257	Phillipstown C	Sun	White	Phillipstown N	2-56	Tar Springs	6-5S-11E
4357	Phillipstown S	Permian	White	Given-Brown	12-62	Tar Springs	11-5S-10E
2616	Raccoon Lake	Texaco	Marion	Raccoon Lake U	7-61	McClosky	3-1N-1E
2617	Raccoon Lake	Texaco	Marion	Raccoon Lake U	7-61	Spar Mtn	3-1N-1E
3605	Raleigh	Kewanee	Saline	Raleigh U	10-60	Aux Vases	10,15,16-8S-6E
3604	Raleigh S	C. E. O'Neal	Saline	Raleigh U	12-60	Aux Vases	20-8S-6E
2900	Raymond E	Rhea Fletcher	Montgomery	Foster-Poggenpohl U*	8-59	Penn	15,22-10N-4W
2009	Roaches N	Texaco	Jefferson	Roaches N U	8-60	Benoist	5,8-2S-1E
3970	Rochester	Ashland	Wabash	N. Rochester U	7-60	Penn Waltersburg	11,14-2S-13W
3972	Rochester	Ashland	Wabash	Rochester Coop	1960	Penn	14-2S-13W
3968	Rochester	J. H. Gilliam	Wabash	Kennard	6-60	Penn	14-2S-13W
3987	Rochester	J. H. Gilliam	Wabash	Kennard	6-60	Waltersburg	14-2S-13W
4361	Roland C	F. J. Fleming Drlg	White	Doerner U	6-62	Waltersburg	12,13-7S-8E
1418	Roland C	Humble	White & Gallatin	S. Roland	6-59	Aux Vases	16,21,22-7S-8E
4258	Roland C	Humble	White	S. W. Roland U	6-55	Waltersburg	14,15,16-7S-8E
4259	Roland C	Humble	White	Stokes U*	7-54	Hardinsburg	5-6S-9E
1413	Roland C	Indiana Farm Bureau	Gallatin	Omaha U	3-53	Waltersburg	20,21,28,29-7S-8E
4318	Roland C	Indiana Farm Bureau	White	E. Roland U	12-61	Aux Vases	2,3-7S-8E
4260	Roland C	Pure	White	Stokes-Brownsville	8-55	Hardinsburg	36-5S-8E; 31,32-5S-9E; 1,12-6S-8E
4261	Roland C	Shell	White	Iron U	12-50	Hardinsburg	23,24,25-6S-8E
2267	Ruark	Camrick	Lawrence	Ruark U	4-63	Tar Springs	7-2N-12W
1515	Rural Hill N	Acme Casing Pulling	Hamilton	Moore U	5-60	Cypress	2-6S-5E; 34,35-5S-5E
319	Sailor Springs C	Alco	Clay	Clay City NE*	2-55	U. Cypress	8,16,17-3N-7E
318	Sailor Springs C	Ashland	Clay	E. Flora	11-56	McClosky	16,21-3N-7E
328	Sailor Springs C	Ashland	Clay	Sailor Springs	4-58	Cypress Tar Springs	26-4N-7E
1100	Sailor Springs C	Ashland	Effingham	Bible Grove	7-54	Spar Mtn McClosky	28,29-6N-7E
343	Sailor Springs C	Ray-Ober	Clay		10-63	Cypress	23-4N-7E
1102	Sailor Springs C	W. Duncan	Effingham	Brink	12-57	Cypress	34-6N-7E
339	Sailor Springs C	Gulf	Clay	Sailor Springs U	6-63	Cypress	26-4N-7E
1107	Sailor Springs C	Jet	Effingham	Blunt Comm U	11-62	McClosky	17,20-6N-7E
1103	Sailor Springs C	Kingwood	Effingham	Nadler & Joergens	6-55	Spar Mtn McClosky	28-6N-7E
312	Sailor Springs C	W. C. McBride	Clay	Goldsby-Dickey	9-55	Cypress	34-4N-7E
313	Sailor Springs C	W. C. McBride	Clay	Duff-Keck	7-53	Cypress	26,35-4N-7E



Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
89	1,250†	23.3	658†	8		2.4		2,445	10	* Former op. Hiawatha. †Op. adj.	4247
2	97	†	†	†	†	0.3		2,090	10	* Former op. Hiawatha. †Incl. with 4247.	4248
14	39	9.2	63	14	52	3.1	2,200	2,435	10		4278
31*	554	0.0	17	28	247	11.3	1,000	2,870	10	Inj. discontinued 7-64.	2014
	163		11		81			1,180	10	* No data 1961-1964.	223
	745		54					600		* No data 1964.	000
626	757	48.8	49	27	27	36.5	777	2,991	20		3426
34	1,192	1.1	51*	34	761	6.7	0	2,941	20	* Op. adj.	1914
36	135*	8.5	100†	36	144‡	19.8	vac.	2,925		* 5-54 - 6-60 incl. 1914. †Since 1-55. ‡Since 1-62.	1903
269	3,690	10.0	289	55	1,135	69.5	1,120	3,100	20		3408
205	3,847	18.8	480	704	3,302	43.2	1,200	3,000	20		3420
445	6,997	29.3	1,169	175	2,618	6.1	1,400	2,600	10		307
112	119	*	*	*	*	2.0	1,400	2,742	20	* Incl. with 342.	341
209	227	25.1*	25*	36*	36*	4.1	1,400	2,641	10	* Incl. 341.	342
8	179	0.4	6	4	25	4.6	0	2,960	20	* Abd. 8-64.	3424
523	5,134	2.3	159	171	1,859	35.8		3,130	10		3409
114	681†	9.0	129‡	100	244†	5.5		2,770	20	Incl. 1020. †Excluding 1961-1962. ‡Est.	1017
								2,850			
54	230	4.6	28*	31	47	16.3	1,296	3,000	10	* Incl. prim. prod.	308
842	5,472	35.3	441	762	3,304	46.1		3,000	10		327
34	406	1.7	43	7	76	14.3	1,375	2,700	10	* Proj. abd. 6-64.	3417
1,406	58,125	18.6	6,502	1,406	46,023	3.5	360	1,410	10		2601
677	9,571	13.7	1,492*	677	4,597	9.8	380	1,550		* Incl. prim. prod. since 1948.	2602
0	1,140	0.5	63*	0	919		380	1,280		* Incl. prim. prod. since 8-51.	2603
798	2,567	58.5	255*	251	654	11.6	850	3,930	20	* Incl. prim. prod. since 6-61.	2614
35	671	4.0	113			5.0		2,825	10		4250
27	311	5.5	92			3.7		2,700	10	* Inj. shut down 6-56 through 6-58.	4249
	3,686		1,215		2,777			1,550	10	* No data 1964.	4251
14	44	2.3	5	2	4	3.7	1,685	2,820	20		4344
154	827	11.8	136	53	270	15.1	875	2,920	10		4298
43	49	21.0	23*	1	1	4.4	1,550	2,310	10	* Incl. prim.	4373
83	200	3.3	7	41	86	16.3	1,300	1,842	10		4343
78	141	0.3	0	5	5	9.7	1,500	2,821	10		4370
84	109	2.9				7.7	1,500		10		4369
33	1,079	3.3	105	26	611	6.1	1,177	2,000	10		4253
13	1,748	8.6	120	12	440	1.2	1,738	2,800	10		4255
								2,900			
135	394	57.2	86*	7	28	4.6	1,350	1,970	10	* Incl. prim. prod.	4349
72	346	3.4	17	126	259	13.9	1,700	2,300	10		4257
51	120	27.4	84*			14.0	1,400	2,330		* Incl. prim. prod.; est.	4357
193	872	18.3*	170*	436*	1,203*	14.7	1,100	1,950	10	* Incl. 2617.	2616
374	572	*	*	*	*	4.7	1,100	1,930	10	* Incl. with 2616.	2617
283	1,525	17.9	269	195	666	19.3	1,275	2,945	10		3605
186	692	9.6	41	135	272	33.9	790	2,850	10		3604
	33		4		10			595	10	* No data 1964.	2900
259	1,229	5.7	24	206	1,140	22.1	500	1,930	10		2009
340	1,213	93.6	260	80		7.3	990	1,285	10		3970
								1,960			
492	1,786	37.7	161*	97		22.4	848	1,285	10	* Incl. prim. prod.	3972
577	1,986	90.7	464*			8.8	900	1,350		* Incl. 3987 & prim. prod.	3968
490	1,582	*	*			10.7	900	2,000		* Incl. with 3968.	3987
231	501	13.8	25			39.6	0	2,200	20		4361
186	913	21.1	103	71	261	11.3	1,360	2,920	40		1418
1,400	16,479	174.8	1,700	635	4,207	24.9	430	2,175	40 & 10		4258
19	3,524	1.4	541	8	1,262†	4.5	200	2,530	20	* Project partially abd. †Op. ad.	4259
197	11,393	23.6	506	2	3,764*	6.4		1,695	10	Prev. subj. to gas inj. *Est.	1413
319	1,016	26.3	61	6	19	5.5	1,500	2,935	20		4318
1,460	14,957	61.5	2,234	1,229	8,373	7.0	800	2,628	20		4260
1,306	17,230	31.5	1,995	712	8,782	7.5	569	2,500	20		4261
69	117	14.8	18	6	15	23.5	1,100	1,640	10		2267
239	1,284	5.4	194	50	382	16.4	500	2,400	10		1515
	4,958		345		3,011			2,631	10	* No data 1964.	319
358	1,840	9.7	186*	397	2,187	163.6	500	2,950	40	* Incl. prim. prod. since 11-56.	318
112	1,576	9.6	98*	202	823	21.9	500	2,300		* Incl. prim. prod.	328
								2,600			
300	2,745*	53.9	306†	218		30.4	803	2,850		* No inj. 1-62 to 6-62. †Incl. prim. prod.	1100
								2,870			343
44	474	20.5	112			17.3	200	2,530	10		1102
112	164	21.3	34	12	23	5.1	1,280	2,600	10		339
125	262*	32.8	51	56	59	22.7	0	2,860	20	* Dump flood.	1107
120	1,894*	3.6	102†	111	944	7.3	0	2,856	10	* Dump flood. †Incl. prim. 6-55 to 12-56.	1103
								2,863			
39*	622	2.6	31	14	142	9.7	280	2,600	10	* Inj. discontinued 10-64.	312
104	1,783	3.2	137	76	599	3.4	900	2,600	20		313

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
336	Sailor Springs C	McCollum & Kincaid	Clay	N. Hoosier U	12-62	Cypress	10-4N-7E
311	Sailor Springs C	Mobil	Clay	Sailor Springs U	3-55	Cypress	14,15,23-4N-7E
340	Sailor Springs C	Mobil	Clay	North Hoosier U	12-62	Cypress	15-4N-7E
333	Sailor Springs C	Rock Island O & R	Clay	Bowers	9-61	McClosky	16-3N-7E
315	Sailor Springs C	Shulman Bros	Clay	Colclasure & Hardy	7-57	Cypress	10-3N-7E
329	Sailor Springs C	Skiles	Clay	N. Sailor Springs U	11-56	Spar Mtn	2-4N-7E; 35-5N-7E
1106	Sailor Springs C	Sohio	Effingham & Clay	Rosiclare Lime U	6-61	Spar Mtn	32-6N-7E; 5-5N-7E
2218	St. Francisville E	Bauer Bros	Lawrence	All States Life	11-57	Benoist	22-2N-11W
2503	St. Jacob	Warrior	Madison	Trenton Lime U	8-62	Trenton	15,16,21-3N-6W
1238	St. James	Gulf	Fayette	William Smail	7-63	Cypress	36-6N-2E
1240	St. James	Marathon	Fayette	St. James W F 1C	8-63	Cypress	36-6N-2E
1239	St. James	Texaco	Fayette	St. James U	5-63	Weiler	25-6N-2E; 30,31-6N-3E
1912	Ste. Marie	J. B. Murvin*	Jasper	Ste. Marie Pool U*	11-61	Spar Mtn	7-5N-11E
2612	Salem C	T. M. Conrey, Jr.	Marion	Sebastian	11-59	Benoist	21-1N-2E
2010	Salem C	Humble	Jefferson	Salem C-Aux Vases	8-60	Aux Vases	3,4,9-1S-2E
2618	Salem C	Illinois Lease Op	Marion	Phelps	6-63	Spar Mtn	28,33-1N-2E
2605	Salem C	Texaco	Marion	Salem U	10-50	Benoist	182N-2E
2606	Salem C	Texaco	Marion	Salem U	10-50	Devonian	182N-2E
2607	Salem C	Texaco	Marion	Salem U	4-51	McClosky	182N-2E
2608	Salem C	Texaco	Marion	Salem U	10-50	Aux Vases	182N-2E
1306	Sesser C	W. I. Lewis	Franklin	Sesser U	8-58	Renault	16,17,19,20-5S-2E
410	Shattuc	T. M. Conrey, Jr.	Clinton	Gullick	12-59	Cypress	28-2N-1W
1416	Shawneetown N	Sun	Callatin	L. Miller	11-59	Aux Vases	7-9S-10E
700	Siggins	Bell Bros	Cumberland	Flood I	9-50	Siggins	13-10N-10E
705	Siggins	E. M. Farwell	Cumberland	McVey	7-61	Penn	2-10N-10E
702	Siggins	Forest	Cumberland	Siggins	6-42	Siggins	7-10N-11E; 11,12,13,14-10N-10E
216	Siggins	Pure	Clark & Cumberland	Union Croup	12-46	Siggins	18-10N-11E
215	Siggins	Sage	Clark & Cumberland	Siggins	12-51	Casey	7-10N-14W; 7-10N-11E
005	Sorento	Joe A. Dull	Bond	Sorento S*	10-62	Dutch Creek	29-6N-4W
2400	Staunton W	J. Waitikatus	Macoupin	Dehne U*	7-59	Penn	16-7N-7W
3800	Stewardson	W. L. Belden	Shelby		9-59	Aux Vases	27-10N-5E
3801	Stewardson	R. H. Troop	Shelby	Mort Moran	6-62	Aux Vases	27-10N-5E
4296	Storms C	Glenn Supply Co	White	McQueen*	6-60	Spar Mtn Degonia Clare	32-5S-10E
4263	Storms C	Sinclair	White	Storms Pool U	3-56	Waltersburg	2,11,12,13,14,15,22,23,24-6S-9E
4295	Storms C	Tamarack	White	Hanna	8-60	Clare	32-5S-10E
4327	Storms C	Tamarack	White	Calvert*	8-60	Clare	32-5S-10E
4372	Storms C	Tamarack	White	Hanna	12-62	Biehl	32-5S-10E
3101	Tamara S	Canter Drlg	Perry	Bagwill	1961	Cypress	28-4S-1W
3100	Tamara S	Illinois Lease Operating	Perry	Tamara Field	12-61	Cypress	14,23-4S-1W
1302	Thompsonville E	Humble	Franklin	E. Thompsonville	7-54	Aux Vases	12-7S-2E
1305	Thompsonville N	L & H	Franklin	Thompsonville U*	3-54	Aux Vases	10,15-7S-4E
1304	Thompsonville N	Fairfield Salvage	Franklin	N. Thompsonville U	1-56	Aux Vases	3,9,10-7S-4E
2609	Tonti	Tamarack	Marion	Branch	12-53	Benoist McClosky	4-2N-2E
4279	Trumbull C	E. Price	White	Ward I*	11-59	Aux Vases	19-5S-9E
4362	Trumbull C	R K Petroleum	White	Trumbull U	11-62	Cypress	24-5S-8E; 18-5S-9E
4336	Trumbull C	Texaco	White	Moore-Nibbling U	11-61	McClosky	7-5S-9E
1517	Walpole	Capitol Oil	Hamilton	Walpole S U	11-60	Aux Vases	3-7S-6E
1532	Walpole	Royalco, Inc	Hamilton	Walpole W U	7-62	Aux Vases	28,33-6S-6E
1518	Walpole	Texaco	Hamilton	Walpole U	12-60	Aux Vases	22,26,27,28,34,35-6S-6E
1546	Walpole	Texaco	Hamilton	Walpole E U	9-63	Aux Vases	26,35-6S-6E
2610	Wamac	D. Stinson	Marion	Wamac*	5-54	Petro	30-1N-1E
2611	Wamac	Wamac	Marion	Wamac U*	7-57	Petro	19,30-1N-1E
414	Wamac W	Jet	Clinton	Wamac W	11-62	Benoist	22-1N-1W
1307	W. Frankfort C	Higgins Assoc	Franklin	Horn-Diamond "B"	7-59	Ohara & McCl	24,25-7S-2E
1313	W. Frankfort C	Killion & McClement	Franklin	Tew-Sinks	9-62	Aux Vases	19,20-7S-3E
1301	W. Frankfort C	Farrar	Franklin	W. Frankfort U*	11-57	Ohara & T.S.	18,19-7S-3E
1308	W. Frankfort C	Farrar	Franklin	Orient U*	9-59	Tar Springs	12-7S-2E
1315	W. Frankfort C	Shell	Franklin	Pond Creek U	8-62	T.S. & Ohara	25,30-7S-2E
1312	Whittington W	Kewanee	Franklin	Plains	2-61	Renault	1,2,11,12,14-5S-2E
1906	Willow Hill E	Pure	Jasper	Willow Hill	8-57	McClosky	6-6N-11E
4137	Zenith N	Mobil	Wayne	Zenith N U	3-59	Spar Mtn	21-2N-6E

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
355	749	162.3	288	102	143	9.1	965	2,592	10		336
600	4,775	85.0	886*	213	2,215	10.9		2,600	10	* Incl. prim. prod.	311
160	357	65.0	134	40	89	5.2		2,600	10		340
71	130	19.3	32*	59	82	17.7	500	3,000	20	* Incl. prim. prod.	333
234	1,103	2.0	27	94	425*	21.4	650	2,620	10	* Op. adj.	315
245	2,323	18.1	115	120	823	27.9	1,800	2,880			329
424	2,332	160.4	445	261	748	16.6		2,800	20		1106
225	2,414	6.7	160	67	928	2.8	1,295	1,740	10		2218
563	1,397	91.7	110	272	487*	8.2	400	2,351	10	* Since 10-62.	2503
135	186	29.2	49	228	466	11.6	850	1,561	10		1238
363	1,901	93.5	121	207	278	6.5		1,600			1240
145	278	7.8	10	484	830	14.8	600	1,600	10		1239
			2					2,910		* No data 1962-1964.	1912
9	29	*	4			3.1		1,927	10	* No data 1964.	2612
2,331	7,803	104.5	419	1,753	5,310	11.7	300	2,000	40		2010
55	80	14.0	16	2	3	10.7	485	2,102			2618
22,301	369,196	1,513.9	36,547	17,348	170,915*	13.7	1,179	1,770	20	* Since 1-52.	2605
4,597*	63,615	247.2	1,166	4,169	26,122†	22.9	0	3,400		* Dump flood. †Since 1-52.	2606
21,120	212,345	1,720.8	15,174	18,514	106,916*	20.4	1,140	1,950		* Since 1-52.	2607
25,987	133,903	4,432.3	18,700	16,136	51,909*	15.4	1,127	1,825		* Since 1-52.	2608
256	1,574	7.3	172	75		24.8	600	2,690			1306
37	158	5.4	42*			7.2		1,285	10	* Incl. prim. prod.	410
55	275	6.3	46	25	128	9.9	1,800	2,750	10		1416
27	567	6.1	205	54		0.2	210	320	5	Prev. subj. to gas inj. * No data 1961-1964.	700
5,513	72,103	304.5	11,008			1.0	335	400	4.4	Prev. subj. to gas inj.	705
698	21,073	32.9	2,617	665	18,389	0.6		404	5		702
											216
71	2,853	7.4	281	62	1,249*	0.2	250	440	4.5	* Excl. 1956.	215
31	87	0.3	4		27	25.4		1,850	10	* Proj. abd. 10-1-64.	005
	63		0		2			490	10	* No data 1962-1964.	2400
113	463*	0.3	5			15.4	500	1,750	5	* Op. adj.	3800
176	400	18.0	47*			10.7		1,950	10	* Incl. prim. prod.	3801
								2,035			
359	1,726	16.6	204	139	656	9.1	1,500	2,050		* Formerly NAPCO.	4296
								2,080			
11,939	73,119	307.1	1,923	7,493	40,224	26.8	500	2,240	10		4263
174	554	39.9*	190*	136*		23.8	1,460	2,100		* Incl. 4372.	4295
99	402	0.0	2	0	19	27.1	1,525	2,100		* Proj. abd. Inj. cont. to benefit adj. flood.	4327
15	30	*	*	*		2.9	1,080	1,826		* Incl. with 4215.	4372
79*	158*	5.4*	11*	79*	158*	18.1	320	1,125	10	* Estimated.	3101
239	758	14.6	37*	108	324	10.9	650	1,102	10	* Incl. prim. prod.	3100
140	1,604	4.5	125	106	927	10.6	690	3,200	10		1302
	1,032		143		102			3,120	10	* No data 1963-1964.	1305
30	173	9.0	366*	2		2.7	1,800	3,020	10	* Excl. 1962-1963.	1304
133	596*	8.8	119			28.1		1,950		* No meter prior to 4-59.	2609
								2,122			
	118		2		43			3,143	10	* No data 1964.	4279
286	541	35.9	66*	18	18	13.1	1,500	2,848	10	* Incl. prim. prod.	4362
*	*	3.2	7	14	39		0	3,283		* Dump flood, unknown.	4336
270	1,034	11.5	65*			13.6	1,000	3,180		* Incl. prim. prod.	1517
316	779	42.9	73	95	156	14.4	1,100	3,200	10		1532
2,785	12,096	453.2	1,673	1,979	4,087	12.6	1,500	3,100	20	Prev. subj. to gas inj.	1518
349	474	51.3	54	12	13	11.3	1,500	3,100	20		1546
4		7.2		11		0.1	200	760	10	* No data 1957-1963.	2610
	531		35		221			750		* No data 1961-1964.	2611
599	958	67.7	68*	277	557			1,450	10	* Incl. prim. prod.	414
2*	326	3.6	80†	36	179	0.2		2,760	20	* Est.; conv. to dump flood. †Incl. prim. prod. since 7-59.	1307
137	312	56.5	89*	43	70	10.4	1,500	2,730		* Incl. prim. prod.	1313
	4,162		551		2,319			2,050	20	* No data 1964.	1301
	476		29		444			2,050		* No data 1964.	1308
256	630	60.7	127	100	116	17.6	926	2,060	20		1315
873	2,253	79.7	317*	238	592	39.8	700	2,675	40	* Incl. prim. prod.	1312
*	*	1.3	12	2	132			2,634		* Dump flood.	1906
113	350	9.0	50	28	88	12.0		3,100	20		4137



Project no.	General information							Production and injection statistics							
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R	Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls		Av. inj. per day per foot bbls	Maximum well-head pressure psi
								Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64		
4181	Aden C	Texaco	Wayne	N. Aden U	1-64	Aux Vases	28,32,33-2S-7E; 4,5-3S-7E	1,172	1,172	18.2*	18*	99*	99*	15.7	1,220
4182	Aden C	Texaco	Wayne	N. Aden U	1-64	McClosky	4,5,8-3S-7E; 28,32,33-2S-7E	1,840	1,840	*	*	*	*	25.7	1,220
4397	Aden S	H. H. Weinert	White	S. Aden	7-64	Aux Vases Spar Mtn McClosky	29,30-3S-7E	77 82 214	77 82 214	9.5 Total	10				
1030	Albion C	Texaco	Edwards	Houston Barnes E	11-63	Waltersburg	24-2S-10E	279	308	0.0	0	238	261	38.3	1,000
3883	Allendale	Adams Oil Co	Wabash	C. D. Adams	5-64	Cypress	16-1N-12W	43	43	4.0	4	1	1	17.9	700
1550	Bungay C	Collina Bros	Hamilton	S. Bungay U	8-64	Renault	34,35-4S-7E	106*	323	8.6†	9	11	11	16.8	800
4394	Centerville E	Gulf	White	Jones-Baird	10-63	Cypress	7-4S-10E	264	301	29.7	33	54	56	12.1	1,800
2623	Central City	William Pfeffer	Marion	Pfeffer U	12-64	Petro	8-1N-1E	1	1	0.6	1			0.9	
3428	Clay City C	Bradley Producing	Richland	Onion Hill U	4-64	Aux Vases	1-4N-9E; 36-5N-9E	674	674	10.7	11	21*	21*	10.4	0
4175	Clay City C	Cullum & Lawhead	Wayne	N. E. Ceff U	2-64	Aux Vases	7-1S-8E	66	66	3.1	3	1	1	6.5	1,020
4174	Clay City C	Farrar Oil Co	Wayne	Molt	1-64	McClosky	29-1N-8E	9	9	1.7	2	9	9		
3427	Clay City C	Bernard Podolsky	Richland	Coen U	5-64	Aux Vases	36-5N-9E	26	26	1.2	1			18.0	
3429	Clay City C	Pure	Richland	N.E. Wakefield C	11-64	Cypress	13,24-4N-9E	12	12	0.1	0	4	4	12.6	750
4176	Clay City C	Pure	Wayne	S. Jordan School U	8-64	Aux Vases	11,12-1N-7E; 7-1N-8E	573	573	12.7*	13*	9*	9*	9.2	350
4177	Clay City C	Pure	Wayne	N.E. Ceff U	9-64	Aux Vases	1,11,12,13-1S-7E	323	323	32.6*	33*	8*	8*	8.6	400
4178	Clay City C	Tamarack	Wayne	W. Ceff U	3-64	Ohara	4-1S-7E; 28,33-1N-7E	104	104	*	*	*	*	31.5	300
4179	Clay City C	Watkins Drlg	Wayne	N. First St	8-58	Aux Vases	19-1S-8E	37	275	6.0	28	30	220	2.8	850
4180	Clay City C	Watkins Drlg	Wayne	Watkins-Whitlock	11-59	Aux Vases	9-1S-7E	24	97	5.4	37	24	97	6.0	825
345	Clay City W	Zanetis Oil Prop	Clay	Stanford "A"	7-64	Aux Vases	4-2N-7E	5	5	2.0	2	2	2	4.2	
1917	Clay City C	Zanetis Oil Prop	Jasper	Hines-Ochs "A"	8-64	Spar Mtn	9-5N-10E	28	28	0.8	1	3	3	31.6	
1549	Dale C	E. H. Kaufman	Hamilton	S.W. Rural Hill	12-63	Aux Vases	23-6S-5E	314	321	5.9*	6*	9		11.4	100
1319	Deering City	Farrar	Franklin	Peabody Coal*	1961	Aux Vases	9-7S-3E	27		28.6		27		3.8†	
2021	Divide C	Texaco	Jefferson	W. Divide U	11-64	McClosky	13,14,15,22,23,26-1S-3E	126	126	0.0*	0*	1*	1*	20.2	500
2022	Divide C	Texaco	Jefferson	W. Divide U	11-64	Spar Mtn	13,14,15,22,23,26-1S-3E	48	48	*	*	*	*	33.6	500
4400	Goldengate C	Texaco	Hamilton	J. Hancock Lse	1-63	McClosky	21-3S-9E	57	57	*	*	*	*	15.8	100
3614	Harriaburg	Bufay Oil Co	Saline	Sprich Lorch Lse	10-64	Waltersburg	35-8S-6E	7	7					6.6	
4389	Herald C	Bernard Podolsky	White	Clark U	10-64	Aux Vases	4,5,8,9-7S-10E	9	9	1.4	1	0	0	3.2	820
2017	King	Farrar	Jefferson	Randolf	6-64	Aux Vases	27,34-3S-3E	52	52	15.1	15	9	9	5.5*	200
3881	Lancaater	Mobil	Wabash	Sharp Wood	7-64	Paint Creek	4-1N-13W	62	62	0.2	0	0	0	4.8	
2280	Lawrence	Culf	Lawrence	H. E. Griggs	4-63	Cypress	18-3N-12W	42	99	2.1	2	0	1	1.4	600
2276	Lawrence	Harris	Lawrence	Withers-Pelham-State	1-63	Cypress, Ben	36-3N-12W	200	200	18.0	18	35	35		0
2277	Lawrence	Illinois Oil	Lawrence	Bunker Hill U	2-64	Bridgeport	12-2N-12W	82	82	3.2	3	30*	30*	24.5	470
2281	Lawrence	Jenny Lee	Lawrence	Benoist				95	95	1.3	1	9*	9*	11.8	460
2279	Lawrence	Marathon	Lawrence	Benoist				7	7	0.0	0				600
2279	Lawrence	Marathon	Lawrence	Ridgley #41 P	8-64	Ridgley	26,35-3N-12W	32	32	8.6	9	0	0	4.5	
2283	Lawrence	Zanetis Oil Prop	Lawrence	Carlson U	8-64	Cypress	15-3N-12W	21	21	3.5	3	3	3	4.4	
1242	Louden	Zanetis	Lawrence	Hudson U	5-64	Cypress	18-3N-11W	34	34	2.2	2	8	8	21.1	
1244	Louden	Doran	Yvette	Laura Logue	8-63	Cypress	18-7N-3E	2	2	2.2	2*	2	2	0.4	0
1244	Louden	A. L. Hermann	Fayette	Lilly	7-64	Paint Creek	16-6N-3E	123	123	4.7	5	3	3	2.3	50
1241	Louden	L. B. Hoaa	Fayette	Arnold-Morraion	11-58	Cypress	19-7N-3E	110	675	62.1		164	448	4.4	50
1243	Louden	Jarvis Bros & Marcell	Fayette	Welker	11-56	Cypress	31-7N-3E	24	538	43.0	382*	272	1,694	0.8	
1108	Louden	R. H. & J. B. Troop	Effingham	Louden Extension	10-63	Cypress	19-8N-4E	92	132	16.3	16				
597	Main C	L. S. Dennis	Crawford	Stevenson	8-64	Robinson	20-6N-11W	6	6	1.0	1	0	0	2.1	450
593	Main C	Mt. Carmel Drlg	Crawford	Stewart-Inboden	3-64	Benoist	31-6N-12W	38	38	1.4	1	10	10	5.1	0
592	Main C	Mt. Carmel Drlg	Crawford	New Hebron Coop	1-63	Robinson	22-6N-12W	68	100	10.4	10	15	15	1.7	475
598	Main C	Skiles	Crawford	Hudaon	4-64	Benoist	6-5N-12W	45	45		0	0	0	8.3	0
594	Main C	Tidewater	Crawford	A. W. Mann	1-64	Robinson	32-6N-12W; 5,6-5N-12W	842	902*	14.7	15	134	134	5.7	550
596	Main C	Tidewater	Crawford	Stifle-McKnight	4-61	Robinson	7,18-7N-13W	31	48	3.4	3	4	4	2.5	155
599	Main C	Trans-Pecos	Crawford	George L. Walters	10-64	Robinson	2-6N-13W	42	42	0.0	0	0	0	5.1	125
595	Main C	Westfield, Inc	Crawford	Bidle	7-61	Penn	25-8N-13W	0	53	0.8	1				0
590	Main C	Zanetis Oil Prop	Crawford	Quick Heira Hartleroad Comm	11-64	Robinson	29-7N-12W	4	4	0.9	1	5	5	3.0	
2020	Markham City W	H. Double L	Jefferson	Markham City W U	9-64	McClosky	2-3S-4E; 34,35-2S-4E	50	50	0.8	1			13.7	1,200
516	Mattoon	Dell Carroll	Colea	Carlyle 4A*	5-64	Spar Mtn	11-11N-7E	7	7	0.0	0	0	0	3.0	900
518	Mattoon N	Har-Ken	Colea	N. Mattoon	4-64	Spar Mtn	22-13N-7E	46	46	29.3	29*			11.6	400
517	Mattoon	Steven & Forsyth	Coles	G. Brining Lse	11-64	Aux Vasea	3-11N-7E	8	8	1.2	1	0	0	5.5	700
4384	Maunie N C	Herndon Drlg	White	Maunie U	8-64	Spar Mtn Bridgeport	24,25,36-5S-10E	111	111	22.7*	23*	65	65	5.1	0
4386	Mill Shoals	R. C. Davouat	White	Mill Shoals U	7-64	Aux Vases	19,20-3S-8E	124	124	2.0*	2*	16	16	12.4	500
4183	Mill Shoals	Texaco	Wayne	A. J. Poorman "A"	8-64	Aux Vases	19-3S-8E	55	55	1.3	1	2	2	23.1	200
3882	Mt. Carmel	Mobil	Wabash	Campbell Heira	7-64	Cypress	7-1S-12W	20	20	0.4	0	0	0	3.0	
3872	Mt. Carmel	Sands Oil Corp	Wabash	Crow-Miller Lse		Weiler	8-1S-12W	*	*	8.6	9	0	0		
3884	Mt. Carmel	Skilea	Wabash	C. F. Chapman	5-64	Tar Springs	7,18-1S-12W	29	29	6.4	6	2	2	6.0	450
3885	Mt. Carmel	Skiles	Wabash	Palmyra U	4-64	Tar Springs	5-1S-12W	15	15	*	*	*	*	7.0	1,200
3873	Mt. Carmel	Texaco	Wabash	Kuhn U	7-64	Weiler	16-1S-12W	51	51	0.1	0	1	1	7.8	600
3874	Mt. Carmel	Texaco	Wabash	Stein U	4-64	Weiler	5-1S-12W	83	83	3.4	3	6	6	14.0	800
3875	Mt. Carmel	Texaco	Wabash	Stein Lee	3-64	Weiler	8-1S-12W	50	50	*	*	*	*	7.6	1,000
3876	Mt. Carmel	Texaco	Wabash	Geiger-Steckler U	3-64	Biehl	8,9,16-1S-12W	129	129	*	*	*	*	10.2	920
3877	Mt. Carmel	Texaco	Wabash	Geiger-Steckler U	7-64	Tar Springs	8,9,16-1S-12W	13	13	*	*	*	*	6.2	280



Reservoir statistics			
Depth feet	Net pay thick- ness feet	Poros- ity per- cent	
3,150	12.0		
3,350	14.0		
3,245*	8.0*		
3,330*	8.0*		
3,395*	9.0*		
2,370	20.0		
1,998	10.0		
3,280	6.0	12.0	
2,913	15.0	14.4	
835	25.0		
2,800	10.0	18.0	
3,031	15.0	20.0	
2,800	6.0		
2,579	15.0	18.0	
2,930	23.0	18.0	
3,075	20.0	18.0	
3,170	5.4		
3,146	18.0		
3,129	11.0		
2,950	10.0		
2,810	6.0		
3,120	15.0		
2,620†	20.0†		
2,750	13.0	13.8	
2,710	6.0	13.0	
3,375	12.0		
2,020*	11.0	15.0	
2,890	8.0	18.0	
2,725*	15.0*		
2,540	21.0	17.0	
1,586	16.0	16.7	
1,746	12.0	16.0	
1,564		16.9	
975	10.0	19.0	
1,775	8.0	14.0	
1,019			
1,232	16.0	17.0	
1,516	31.0	16.0	
1,597	18.0	20.8	
1,550	15.0		
1,550	20.0	22.0	
1,598	Avg.	24.0	
1,486	68.0	20.0	
1,530	40.0		
960	8.0	19.8	
1,310	10.0	16.0	
930	14.0	15.8	
1,320	10.0		
950	20.1		
950	17.3	20.0	
909	23.0	19.0	
1,000	10.0	15.0	
935	12.0	19.3	
3,050	10.0		
1,970	10.0		
1,900	12.0	15.7	
1,920	10.0		
1,970	15.0		
2,825	12.0	11.7	
3,220	18.5	18.5	
3,212	16.0	22.0	
2,030	11.5	17.2	
2,010†	11.0†		
1,766	10.0		
1,670	10.0		
1,900	12.0		
2,010	11.0	17.0	
2,010	11.0	17.0	
1,490	14.0		
1,170	12.0	18.9	

General information					
Project no.	Field C = Consolidated	Operator	County	Project U = Unit	Da fir in
3878	Mt. Carmel	Texaco	Wabash	Geiger-Steckler U	3-
3879	Mt. Carmel	Texaco	Wabash	Couch-Noller Comm	3-
3880	Mt. Carmel	Texaco	Wabash	Couch-Noller Comm	3-
4401	New Harmony C	T. M. Bane	White	National Bank U	4-
4392	New Harmony C	Indiana Farm Bureau	White	Calvin	3-
3886	New Harmony C	Phillips	Wabash	N. Maud U	6-
4398	New Harmony C	W. A. Schuller	White		12-
4393	New Harmony C	Skelly	White	Daly	7-
4390	New Harmony C	Superior	White	New Harmony Field U	8-
4391	New Harmony C	Superior	White	New Harmony Field U	8-
1028	New Harmony C	George H. Wickham	Edwards	M. Schroeder	6-
4388	New Haven C	Ryan Industries	White	Dead River U	9-
2018	Oakdale N	Illinois Lse Operating	Jefferson	N. Oakdale U	6-
2624	Patoka	Cullum & Lawhead	Marion	Heinzman	19
2619	Patoka S	R. H. & J. B. Troop	Marion	Benoist-Sandstone U	2-
4387	Phillipstown C	V. R. Gallagher	White	Kuykendall	7-
4395	Phillipstown C	Gulf	White	Garfield Parson	4-
1029	Phillipstown C	Kingwood	Edwards	Johnson Coop	5-
3615	Raleigh	Walter Duncan	Saline	Spurlock Lse	5-
3617	Raleigh	T. W. George	Saline	Raleigh U	5-
3618	Raleigh S	Humble	Saline	S. Raleigh U	8-
3616	Raleigh S	R. K. Petroleum	Saline	Leitch et al	3-
3430	Ritter N	Zanetis	Richland	S.E. Olney U	9-
4396	Roland C	Continental	White	Mobley-Greer	2-
4385	Roland C	Pure	White	Kisner Dump Flood	
1435	Roland C	Wausau	White & Gallatin	Gosset U	7-
344	Sailor Springs	W. C. McBride	Clay	Dehart	11-
2278	St. Francisville	Logan	Lawrence	Wilson "B"	11-
346	W. Seminary C	Gulf	Clay	W. Seminary U	3-
1318	Sesser C	N.A.P. Co	Franklin	Old Ben Coal Flood	7-
415	Shattuc	T. M. Conrey, Jr.	Clinton	Mann	
416	Shattuc	T. M. Conrey, Jr.	Clinton	Maschoff*	8-
417	Shattuc	T. M. Conrey, Jr.	Clinton	Redeker*	1-
4399	Storms C	Sinclair	White	N. Storms Ext. Coop	6-
1551	Thackeray	Marathon	Hamilton	Thackeray U 3-A	4-
2620	Tonti	Texaco	Marion	Tonti U	2-
2621	Tonti	Texaco	Marion	Tonti U	2-
2622	Tonti	Texaco	Marion	Helen McMackin	3-
231	Westfield	W. M. Ashley	Clark	Sherwood Steam Flood*	2-
2019	Williams S	Warrior	Jefferson	Williams S U	10-
2023	Woodlawn	Texaco	Jefferson	Walker #7	3-

Depth feet	Reservoir statistics (average value)					Development as of 12-31-64					Injection water			Remarks	Project no.
	Net pay thick- ness feet	Poros- ity per- cent	Perme- ability milli- darcys	Oil gravity API	Oil viscosity centipoises	No. of wells		Injection pattern Mod = Modified Irr = Irregular	Acres per input well	Productive acres		Source Sd = Sand Gr = Gravel Prod = Produced Sh = Shallow	Type F = Fresh B = Brine		
						Inj.	Prod.			Under inj.	Total				
3,150	12.0			36.0		17	30	Perimeter	10	1,460	1,460			* Incl. 4182.	4181
3,350	14.0			38.0		14	17	Perimeter	20	1,460	1,460			Incl. with 4181.	4182
3,245*	8.0*													* Estimated.	4397
3,330*	8.0*														
3,395*	9.0*														
2,370	20.0			39.0		1	4		10	40	40				1030
1,998	10.0			36.0		1	4		10	120	60				3883
3,280	6.0	12.0	244	39.0		7	9	Line Dr	10	700	320			* Incl. 217,000 bbls inj. prior to unitization. †Since 2-64.	1550
2,913	15.0	14.4	109	36.6		4	4	5-Spot	10	100	100				4394
835	25.0			34.0		1	5		10	70	70				2623
2,800	10.0	18.0	50	39.0		27	25	5-Spot	20	380	530			* Since 11-64.	3428
3,031	15.0	20.0	27	38.5		2	2								4175
						1	2			30	40				4174
2,800	6.0			36.0		1	4	Mod-5-Spot	10	50	50				3427
2,579	15.0	18.0	65			1	2	5-Spot	20	100	100				3429
2,930	23.0	18.0	75			18	18	5-Spot	20	880	880			* Since 1-1-64.	4176
3,075	20.0	18.0	75			20	19	Irr		1,127	1,127			* Since 1-1-64.	4177
3,170	5.4			36.0		2	32	Line Dr		660	1,420			* Incl. with 4165.	4178
3,146	18.0			38.0		2	3	5-Spot	10 & 20	80	80				4179
3,129	11.0			38.0		1	2	5-Spot	10	40	40				4180
2,950	10.0			37.8		1	2	Mod-5-Spot	10	30	30				345
2,810	6.0			40.0		1	2	Irr	20	60	60				1917
3,120	15.0					5	5	5-Spot	10	110	130			* Incl. prim. prod.	1549
2,620†	20.0†					1	4			50	50			* Pressure maintenance. †Estimated.	1319
2,750	13.0	13.8	1,033			8	25	Perimeter	20	1,245	1,245			* Incl. 2022.	2021
2,710	6.0	13.0	67			4	8	Perimeter	20	1,245	1,245			* Incl. with 2021.	2022
3,375	12.0					1	3		20	40	40			* Incl. with 4377.	4400
2,020*	11.0	15.0	150	38.0		1	1		10	10	20			* Estimated.	3614
2,890	8.0	18.0	75	36.0		4	12		10	155	160			* Estimated.	4389
2,725*	15.0*					3	6			90	90			* Estimated.	2017
2,540	21.0	17.0	65			2	2	Irr	10	30	40				3881
1,586	16.0	16.7	21	38.0		7			10	7	10			* Production co-mingled.	2280
1,746	12.0	16.0	27												
1,564		16.9	23.5	38.5		8	8	5-Spot	10	80	80				2276
975	10.0	19.0	350	35.0	12.5 @ 72°F	1	3		10	40	40			* Since 1-64.	2277
1,775	8.0	14.0	25	38.0	4.0 @ 82°F	3	8		10	100	100				
1,019						1	2		10	20					2281
1,232	16.0	17.0	400			3	2	Random		60					2279
1,516	31.0	16.0	13.6	36.7		1	8	5-Spot	10	10	80				2282
1,597	18.0	20.8	121	36.1		1	4		10	20	50				2283
1,550	15.0					1	2		5	35	35			* Since 1-64.	1242
1,550	20.0	22.0				15	11		10	118	118				1244
1,598	Avg.	24.0													
1,486	68.0	20.0				1	9		16.5	50	50			* Incl. prim. prod.	1241
1,530	40.0					2	8	Irr	10	80	80				1243
						4	12		10	220					1108
960	8.0	19.8	177	30.0		1	4		10	40	40				597
1,310	10.0	16.0	45	34.0		2	3	5-Spot	10	50	50				593
930	14.0	15.8	16	36.0	7.0 @ 76°F	8	20	Irr	5	130	130				592
1,320	10.0					2	1			20	40				598
950	20.1					20	29	5-Spot	10	238	238			Prev. subj. to gas inj. * Incl. 60,000 bbls inj. by prev. owner.	594
950	17.3	20.0				6	7	5-Spot	10	38	100				596
909	23.0	19.0	105	33.0	10.7 @ 74°F	4	3	5-Spot	10	50	120				599
1,000	10.0	15.0	85	34.0		1	4		10	40	120				595
935	12.0	19.3	36	37.0		2	6	Irr	10	50	60				590
3,050	10.0			36.0		1	2	Flank		271	271				2020
1,970	10.0				36.0 @ *F	1	2	5-Spot	10	35	35			* Pressure maintenance.	516
1,900	12.0	15.7	6.4			4	9		10	150	150			* Since 1-64.	518
1,920	10.0					1	3	Irr		40	40				517
1,970	15.0														
2,825	12.0	11.7				5	18	5-Spot	10	120	350			* Incl. prim. prod. since 2-64.	4384
3,220	18.5	18.5	75	39.0	3.5 @	3	13	Peripheral		188	279			* Since 9-1-64.	4386
3,212	16.0	22.0	130	37.0		1	4		10	30	190				4183
2,030	11.5	17.2	32	36.0		2	4	Irr		40	70				3882
2,010†	11.0†					0	2							* Benefitted by adj. water flood. †Estimated.	3872
1,766	10.0					2	1			20	30				3884
1,670	10.0					1	4			25	50			* Incl. with 3890.	3885
1,900	12.0			35.0		3	2	Perimeter	10	111	111				3873
2,010	11.0	17.0	29.3	32.4		2	3	Random	10	73	73				3874
2,010	11.0	17.0	29.3	32.4		2	2	Random	10	73	73			* Incl. with 3925.	3875
1,490	14.0			35.0		3	5	5-Spot	10	182	182			* Incl. with 3878.	3876
1,170	12.0	18.9	221	32.4		1	1		10	30	30			* Incl. with 3878.	3877

Project no.	General information							Production and injection statistics							
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R	Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls		Av. inj. per day per foot bbls	Maximum well-head pressure psi
								Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64		
3878	Mt. Carmel	Texaco	Wabash	Geiger-Steckler U	3-64	Weiler	8,9,16-1S-12W	226	226	30.0*	106*†	32*	113*†	8.9	1,000
3879	Mt. Carmel	Texaco	Wabash	Couch-Noller Comm	3-64	Biehl	16-1S-12W	19	19	*	*	*	*	8.9	1,000
3880	Mt. Carmel	Texaco	Wabash	Couch-Noller Comm	3-64	Weiler	16-1S-12W	46	46	0.4*	0*	S*	S*	12.7	600
4401	New Harmony C	T. M. Bane	White	National Bank U	4-64	Tar Springs	19,20,29-4S-14W			41.0	41				1,100
4392	New Harmony C	Indiana Farm Bureau	White	Calvin	3-63	Aux Vases	22-4S-14W	112	206	1.3	1*	0	0	7.7	1,850
3886	New Harmony C	Phillips	Wabash	N. Maud U	6-64	U. Cyp, Ohara	13,24-1S-14W	71	71	8.1	8	46	46	15.4	471
4398	New Harmony C	W. A. Schuller	White		12-63	Cypress	17-4S-14W	292	292	138.6	136	28	28	5.0	1,300
						Benoist									
4393	New Harmony C	Skelly	White	Daly	7-63	U. Cypress	17-4S-14W	66	134	0.2	0	36	63	5.5	
						Paint Creek								Avg.	
						Benoist									
						Aux Vases									
4390	New Harmony C	Superior	White	New Harmony Field U	8-64	Cypress	21,27,28,29,32,33,34-4S-14W; 3,4,S-SS-11W	114	114	*	*	*	*	19.0	410
4391	New Harmony C	Superior	White	New Harmony Field U	8-64	Waltersburg	27,28,33,34-4S-11W	127	127	*	*	*	*	21.2	700
1028	New Harmony C	George H. Wickham	Edwards	M. Schroeder	6-64	Waltersburg	26,27-2S-14W	162	162	27.0*	27*	0	0	18.5	600
4388	New Haven C	Ryan Industries	White	Dead River U	9-64	Tar Springs	13,18-7S-10E	55	55	4.5	5	0	0	27.0	1,100
2018	Oakdale N	Illinois Lee Operating	Jefferson	N. Oakdale U	6-64	McClosky	3-2S-4E	29	29	42.5*	43*	15	15	13.6	495
2624	Patoka	Cullum & Lawhead	Marion	Heinzman	1964	Trenton	32-4N-1E	*	*	1.0	1			8.2†	
2619	Patoka S	R. H. & J. B. Troop	Marion	Benoist-Sandstone U	2-64	Benoist	S-3N-1E	43	43	6.4	6	0	0	2.1	
4387	Phillipstown C	V. R. Callagher	White	Kuykendall	7-64	Penn	2S-4S-10E	17	17	8.1*	10†	4	4		850
4395	Phillipstown C	Gulf	White	Carfield Parson	4-61	Paint Creek	7-4S-14W	104	604	41.2	134	134	521	2.1	2,200
						Aux Vases		167	415	Total	Total	Total	Total	10.2	Avg.
1029	Phillipstown C	Kingwood	Edwards	Johnson Coop	8-64	McClosky	18-3S-11E	115	115	1.1	1	3	3	47.9	0
3615	Raleigh	Walter Duncan	Saline	Spurlock Lse	8-64	Cypress	2-8S-6E	19	19	3.6	4	1	1	8.1	400
3617	Raleigh	T. W. George	Saline	Raleigh U	5-62	Cypress	3S-7S-6E	451	1,087	234.9	356	55		5.2	800
3618	Raleigh S	Humble	Saline	S. Raleigh U	8-64	Aux Vases	20-8S-6E	71	71	0.0	0	28	28	12.6	260
3616	Raleigh S	R. K. Petroleum	Saline	Leitch et al	3-64	Aux Vases	21-8S-6E	78	78	6.7	7	12	12	5.8	650
3430	Ritter N	Zanetis	Richland	S.E. Olney U	9-64	Spar Mtn	18-3N-11E	24	24	1.2	1	18	18	25.4	
4396	Roland C	Continental	White	Mobley-Greer	2-62	Tar Springs	2S-6S-8E	26	62	6.3	32	9	20	7.1	0
4385	Roland C	Pure	White	Kisner Dump Flood		Paint Creek	7-6S-9E	52		43.8		52		3.4	
1435	Roland C	Wausau	White & Callatin	Cosset U	7-64	U. Cypress	18,19,20-7S-8E	70	70	2.2*	2	0	0	10.8	535
344	Sailor Springs	W. C. McBride	Clay	Dehart	11-64	Cypress	9-3N-7E	18	18	0.6	1	1	1	10.0	220
2278	St. Francisville	Logan	Lawrence	Wilson "B"	11-64	Benoist	20-2N-11W	11	11	0.0	0	0	0	11.2	0
346	W. Seminary C	Gulf	Clay	W. Seminary U	3-64	Aux Vases	S,6,8-2N-7E	720	720	112.1	112*	176	176	16.4	650
						McClosky		257	257	Total	Total	Total	Total	46.8	1,150
1318	Sesser C	N.A.P. Co	Franklin	Old Ben Coal Flood	7-64	Aux Vases	13,14,23,24-6S-1E	206	206	18.6	19	25	25	7.9	1,200
						Devonian									
415	Shattuc	T. M. Conrey, Jr.	Clinton	Mann		Cyp, Benoist	28-2N-1W	12	12	3.8	4				700
416	Shattuc	T. M. Conrey, Jr.	Clinton	Maschoff*	8-64	Cyp, Benoist	28-2N-1W	3	3	3.8	4			2.2	
417	Shattuc	T. M. Conrey, Jr.	Clinton	Redeker*	1-64	U. Cypress	28-2N-1W	5	5	1.7	2			1.5	
4399	Storms C	Sinclair	White	N. Storms Ext. Coop	6-64	Waltersburg	1,12-6S-9E	382	382	15.9	16	105	105	3.2	800
						Tar Springs									
						Aux Vases									
1551	Thackeray	Marathon	Hamilton	Thackeray U 3-A	4-64	Aux Vases	10,11,15-5S-7E	1,298	1,298	45.9	46	23	23	21.3	
2620	Tonti	Texaco	Marion	Tonti U	2-64	McClosky	4-2N-2E	588	588	9.9*	10*	871*	871*	16.2	250
2621	Tonti	Texaco	Marion	Tonti U	2-64	Spar Mtn	4-2N-2E	146	146	*	*	*	*	13.6	250
2622	Tonti	Texaco	Marion	Helen McMackin	3-64	Spar Mtn	34-3N-2E	35	35	0.0	0	35	35	14.4	0
231	Westfield	W. M. Ashley	Clark	Sherwood Steam Flood*	2-64	U. Casey	32-11N-14W	648†	648†	0.6	1	6	6		400
2019	Williams S	Warrior	Jefferson	Williams S U	10-64	Aux Vases	10,11-3S-2E	44	44	2.3	2	44	44	11.1	740
2023	Woodlawn	Texaco	Jefferson	Walker #7	3-64	Benoist	2-3S-1E	117	117	6.1	6	77	77	21.7	500

TABLE 12 - ILLINOIS WATERFLOOD PROJECT

Well No.	Formation	Section, T-R	Production and injection statistics							
			Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls		Av. inj. per day per foot bbls	Maximum well-head pressure psi
			Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64		
164	Weiler	8,9,16-1S-12W	226	226	30.0*	106*†	32*	113*†	8.9	1,000
164	Biehl	16-1S-12W	19	19	*	*	*	*	8.9	1,000
164	Weiler	16-1S-12W	46	46	0.4*	0*	5*	5*	12.7	600
164	Tar Springs	19,20,29-4S-14W			41.0	41				1,100
163	Aux Vases	22-4S-14W	112	206	1.3	1*	0	0	7.7	1,850
164	U. Cyp, Ohara	13,24-1S-14W	71	71	8.1	8	46	46	15.4	471
163	Cypress	17-4S-14W	292	292	135.6	136	28	28	5.0	1,300
	Benoist									
163	U. Cypress	17-4S-14W	66	134	0.2	0	36	63	5.5	
	Paint Creek								Avg.	
	Benoist									
	Aux Vases									
164	Cypress	21,27,28,29,32,33,34-4S-14W;	114	114	*	*	*	*	19.0	410
		3,4,5-5S-11W								
164	Waltersburg	27,28,33,34-4S-11W	127	127	*	*	*	*	21.2	700
164	Waltersburg	26,27-2S-14W	162	162	27.0*	27*	0	0	18.5	600
164	Tar Springs	13,18-7S-10E	55	55	4.5	5	0	0	27.0	1,100
164	McClosky	3-2S-4E	29	29	42.5*	43*	15	15	13.6	495
164	Trenton	32-4N-1E	*	*	1.0	1			8.2†	
164	Benoist	5-3N-1E	43	43	6.4	6	0	0	2.1	
164	Penn	25-4S-10E	17	17	8.1*	10†	4	4		
161	Paint Creek	7-4S-14W	104	604	41.2	134	134	521	2.1	2,200
	Aux Vases		167	415	Total	Total	Total	Total	10.2	Avg.
164	McClosky	18-3S-11E	115	115	1.1	1	3	3	47.9	0
164	Cypress	2-8S-6E	19	19	3.6	4	1	1	8.1	400
162	Cypress	35-7S-6E	451	1,087	234.9	356	55		5.2	800
164	Aux Vases	20-8S-6E	71	71	0.0	0	28	28	12.6	260
164	Aux Vases	21-8S-6E	78	78	6.7	7	12	12	5.8	650
164	Spar Mtn	18-3N-11E	24	24	1.2	1	18	18	25.4	
162	Tar Springs	25-6S-8E	26	62	6.3	32	9	20	7.1	0
	Paint Creek	7-6S-9E	52		43.8		52		3.4	
164	U. Cypress	18,19,20-7S-8E	70	70	2.2*	2	0	0	10.8	535
164	Cypress	9-3N-7E	18	18	0.6	1	1	1	10.0	220
164	Benoist	20-2N-11W	11	11	0.0	0	0	0	11.2	0
164	Aux Vases	5,6,8-2N-7E	720	720	112.1	112*	176	176	16.4	650
	McClosky		257	257	Total	Total	Total	Total	46.8	1,150
164	Aux Vases	13,14,23,24-6S-1E	206	206	18.6	19	25	25	7.9	1,200
	Devonian									
164	Cyp, Benoist	28-2N-1W	12	12	3.8	4				700
164	Cyp, Benoist	28-2N-1W	3	3	3.8	4			2.2	
164	U. Cypress	28-2N-1W	5	5	1.7	2			1.5	
164	Waltersburg	1,12-6S-9E	382	382	15.9	16	105	105	3.2	800
	Tar Springs									
	Aux Vases									
164	Aux Vases	10,11,15-5S-7E	1,298	1,298	45.9	46	23	23	21.3	
164	McClosky	4-2N-2E	588	588	9.9*	10*	871*	871*	16.2	250
164	Spar Mtn	4-2N-2E	146	146	*	*	*	*	13.6	250
164	Spar Mtn	34-3N-2E	35	35	0.0	0	35	35	14.4	0
164	U. Casey	32-11N-14W	648†	648†	0.6	1	6	6		400
164	Aux Vases	10,11-3S-2E	44	44	2.3	2	44	44	11.1	740
164	Benoist	2-3S-1E	117	117	6.1	6	77	77	21.7	500



Depth feet	Reservoir statistics (average value)					Development as of 12-31-64						Injection water			Remarks	Project no.
	Net pay thick- ness feet	Poros- ity per- cent	Perme- ability milli- darcys	Oil gravity API	Oil viscosity centipoises	No. of wells		Injection pattern Mod = Modified Irr = Irregular	Acres per input well	Productive acres		Source Sd = Sand Gr = Gravel Prod = Produced Sh = Shallow	Type F = Fresh B = Brine			
						Inj.	Prod.			Under inj.	Total					
1,990	12.0			35.0		7	10	5-Spot	10	182	182			* Incl. 3876, 3877. †Prev. stimulation due to adj. water flood.	3878	
1,490	14.0			35.0		1	1		20	50	50			* Incl. with 3880.	3879	
1,990	12.0		35			1	1		20	50	50			* Incl. 3879.	3880	
2,330	8.0					3	5			80	130				4101	
2,830	20.0	11.7	7.3	36.5	11.0 @ 60°F	2	4	Flank	10	180	180			* Since 1-64.	4392	
2,500	11.0	16.5	115	37.0		2	8		10 & 20	100	120				3886	
2,552	20.0			37.0		4	4	5-Spot	20	40	40				4398	
2,662	20.0															
2,584	10.0			36.0		1	5		10	40	40				4393	
2,680	13.0			Avg.												
2,706	13.0															
2,832	10.0															
2,550	10.0	17.0	37	36.0	5.1 @ 60°F	4	*	5-Spot	20	160	3,138			* Incl. with 4236.	4390	
2,120	10.0	18.0	47	36.0	5.6 @ 60°F	4	*	5-Spot	20	160	665			* Incl. with 4236.	4391	
2,150	12.0					2	7	Random	10	80	80			* Since 1-64.	1028	
2,200	5.7	18.9	98	38.1	3.6 @ 89°F	3	7	Mod Split Line	10	236	230				4388	
2,931	10.0					1	10			290	290			* Since 1-64.	2018	
3,950†	25.0†					1	1		20	40				* Incl. with 2614. †Estimated.	2624	
1,461*	15.0*					4	8		10	320				* Estimated.	2619	
1,490	15.0	18.7	35	35.8	6.1 @ 80°F			Perimeter	10	170	180			* Since 1-64. †Since 11-63.	4387	
2,776	45.0	15.0	5	38.7		3	5	5-Spot	10	222	222				4395	
2,885	15.0			Avg.												
3,116	5.0	12.0	100	37.0	3.8 @	2	3	Flank	20	35	120				1029	
2,550	11.0			32.0		1	1	5-Spot	10	20	20				3615	
2,553	14.0					17	15	5-Spot	10	500					3617	
2,840	12.5	18.4	130	38.0		3	5	Peripheral	10	59	240				3618	
2,850	15.0	15.0		36.0		3	7	Line	10	100	100				3616	
3,190	4.0			38.8		2	6	Irr	20	160	160				3430	
2,332	10.0	23.9	77			1	2	Line Dr	10		120				4396	
2,788	42.0	17.0	50			1	19	5-Spot	20	540	540				4385	
7,550	12.0	18.5	80	38.0	9.0 @ 60°F	3	7		10	100	125			* Since 1-64.	1435	
2,610	15.0	17.5	50			2	3	5-Spot	20	20	70				344	
1,854	12.0	18.5	65			1	1		20	40	40				2278	
3,000	9.0	19.0		37.2		16	13	5-Spot	10	290	330			* Since 1-64.	346	
3,080	6.0			37.6	9.5 @ 50°F	3	4	Peripheral	40	120	140					
2,600	18.0					8	19	5-Spot	10	500	500				1318	
4,375	Avg.															
1,436	9.0				34.0 @ 52°F	1	1								415	
1,290	10.0				35.2 @ 42°F	1	1		10	20	20			* Pressure maintenance.	416	
2,290	20.0	20.0	200	38.0	34.2 @ 48°F	1	2		10					* Pressure maintenance.	417	
2,340	10.0	18.5	100			16	16	5-Spot	10	280	320				4399	
2,980	15.0	18.0	50													
3,368	15.0	24.0	270			15	20	Peripheral		420					1551	
2,125	18.0	14.1	196	36.0		6	18	Perimeter	10	140	300			* Incl. 2621.	2620	
2,108	8.0	17.3	169	36.0		4	15	Perimeter	10	140	300			* Incl. with 2620.	2621	
2,108	8.0	17.3	169	36.0		1	2		20	30	30				2622	
324	20.0	20.0	250	25.0	50.0 @ 60°F	2	1		5	10				* Abd 10-64. †Tons of steam injected.	231	
2,555	11.0	17.6	50.1	37.0	4.4 @ 92°F	4	8	Mod Peripheral	29.8	119	171.5				2019	
1,948	18.0	14.0	225	35.9		1	2		10	40	80				2023	

TABLE 13 - ILLINOIS PRESSURE MAINTENANCE

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
405	Beaver Creek S	T. M. Conrey, Jr.	Clinton	Kneier-Ragland	4-56	Benoist	12,13-3N-3W
1013	Bone Gap C	V. R. Gallagher	Edwards	Bone Gap U	6-52	Waltersburg	18-1S-14W
407	Carlyle N	T. M. Conrey, Jr.	Clinton	Kreitemeyer	1955	Benoist	23-3N-3W
4264	Enfield	Ryan	White	S. Enfield U 1	1-55	Aux Vases	28,29,32-5S-8E
406	Germantown E	H. Graham	Clinton	Germantown	9-56	Devonian	1-1N-4W; 36-2N-4W
1223	Louden	Humble	Fayette	Louden Devonian	9-43	Devonian	8N-3E
4265	Maunie S C	NAP Co	White	S. Clear Pond	6-57	Tar Springs	12-6S-10E
1414	Omaha	Humble	Gallatin	Omaha	10-44	Palestine	33-7S-8E; 4-8S-8E
2006	Salem C	Humble	Jefferson	Dix (R. & P.M.)	1-48	Bethel	3,4,9,10,15,16-1S-2E

Production and injection statistics						Av. inj. per day per foot bbls	Maximum well-head pressure psi	Depth feet	Acres per input well	Remarks	Project no.
Water inj., M bbls		Oil prod., M bbls		Water prod., M bbls							
Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64	Total 1964	Cumulative 12-31-64						
54	387	5.7	89			18.3	600	1,110	10		405
69	1,192	14.0	448	69	1,192	9.3	550	2,310	10		1013
58	240	2.4	26			22.5	800	1,142	10		407
215	2,001	6.5	452*	215	1,966	23.4	1,996	2,810		* Incl. prim. prod.	4264
	2,046*		550*		2,099*			2,300	20	* No data since 1962.	406
9,509	190,730	255.7	18,818	7,142	173,165	180.9	200	3,100	40		1223
467	1,103*	26.2	112†	73	215	17.7	1,500	2,200	10	* No inj. 1-62 to 10-62 † Incl. prim. prod.	4265
405	3,833	42.7	2,922	235	2,912	65.3		1,700			1414
1,131	13,260	332.4	11,600	1,085	9,167	40.8	410	1,950	519		2006

Project no.	General information								Production and injection statistics, M bbls		
	C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Date abd.	Section, T-R	Cumulative water injection	Cumulative secondary oil prod.	Cumulative water production
4201	Albion C	Concho	White	N. Crossville U	10-52	Cypress	1959	26,27,34,35-3S-10E	3,620	313	1,270
4202	Albion C	Concho	White	N. Crossville U	10-52	Tar Springs	1959	26,27,34,35-3S-10E	868	58	69
1014	Albion C	Continental	Edwards	Stafford	5-43	McClosky	12-56	13-2S-10E	625	43*	637
1015	Albion C	First Natl. Pet. Trust	Edwards	Brown	4-52	Aux Vases	12-55	6-2S-11E	*		
3910	Allendale	Centralia Pet. Co	Wabash	Mattaliano et al	6-52	Biehl	1963	15-1N-12W	45*	13*	23*
3971	Allendale	T. W. George	Wabash	Young	1-59	Benoist	1961	1-1N-12W	208*	†	†
3952	Allendale	L & M	Wabash	S. Price	11-54	Biehl	1960	19-1N-12W	887*	167*	348†
3944	Allendale	Indiana Farm Bureau	Wabash	Woods	11-53	Biehl	6-57	20-1N-12W	633	45*	559†
3904	Allendale	Tamarack	Wabash	Patton	1954	Cypress	1959	28-1N-12W	644*	90*	147*
3979	Allendale	Tamarack	Wabash	Hershey-Cogan	10-61	Biehl	3-63	35-2N-12W	9	4*	17
4103	Barnhill	Ashland	Wayne	Barnhill	1-51	McClosky	3-62	26,34,35-2S-8E	9,174*	1,263	
4129	Barnhill	Wayne Development	Wayne	Walter	12-50	McClosky	1-55	26-2S-8E	144		119
4105	Barnhill	Willets & Paul	Wayne	Barnhill U	10-56	Ohara	12-59	27,28-2S-8E	*	†	†
4106	Barnhill	Willets & Paul	Wayne	Simpson U	9-57	Spar Mtn	12-59	27-2S-8E	350*	†	†
001	Beaver Creek	T. M. Conrey, Jr.	Bond	Wrone	7-53	Benoist	1-62	36-4N-3W	106	23	
666	Bellair	Wausau	Crawford	Grant	2-53	Robinson	1-61	13-8N-14W	1,343	161*	380
3942	Berryville C	Phillips	Wabash	Tarply	9-52	McClosky	2-53	2-1N-14W	35	0	103
3943	Berryville C	Phillips	Wabash	Townsend	2-52	McClosky	7-53	35-2N-14W	50	0	86
2300	Blackland	Fear and Duncan	Macon		10-63	Silurian	12-63	5-15N-1E	6	0	4
3912	Browns E	T. W. George	Wabash	Bellmont	1-51	Cypress	1957	1,2,11,12-2S-14W	3,009	905*	1,122
3913	Browns E	Mobil	Wabash	Bellmont	11-47	Cypress	1-63	2,11-2S-14W	822	582*	268
200	Casey	F. A. Bridge	Clark	States Oil*	1-54	Casey	1963	26-10N-14W			
217	Casey	Calvin American	Clark	Shawver	8-53	Casey	7-54	23,24-10N-14W	49	2	
201	Casey	Forest	Clark	Casey	3-50	Casey	3-61	19-10N-14W	8,030	462	
4267	Centerville E	D. B. Lesh	White	Centerville E	6-54	Spar Mtn	12-55	12-4S-9E	*	4	4†
4246	Centerville E	Sun	White	E. Centerville	10-50	Tar Springs	8-57	7-4S-10E	269	39	132
408	Centralia	Sohio	Clinton	Copple	11-51	Trenton	*	35-2N-1W	236	34	21
1900	Clay City C	Ashland	Jasper	Boos E	9-53	McClosky	5-60	2-6N-10E	333*	16	
3402	Clay City C	Ashland	Richland	Noble N	7-54	McClosky	3-60	35-4N-9E	318	8*	
4107	Clay City C	Continental	Wayne	Wilson "B"	4-55	Spar Mtn	6-63	15-1S-8E	212	13*	53
4109	Clay City C	F. & W.	Wayne	Miller & Lambrich U	8-50	Ohara, Spar Mtn & McCl	1962	29-1N-8E	*	144*	
4130	Clay City C	Gulf	Wayne	Winona	8-55	McClosky	10-56	12-1S-8E	25	0	0
4119	Clay City C	Kirby	Wayne	Kirby	1-55	Aux Vases	1962	16,17-1N-7E	2,464	360	391
3416	Clay City C	Marathon	Richland	Noble Coop U	8-54	McClosky	1960	8-3N-9E	2,776	307	3,018
301	Clay City C	Phillips	Clay	Minnie	7-53	Spar Mtn	5-58	24-3N-7E	181	79	460
4115	Clay City C	Robinson & Puckett	Wayne	N. Puckett U	1-56	Aux Vases	8-62	9-2S-8E	966	148	246*
4116	Clay City C	Robinson & Puckett	Wayne	S. Puckett U 1	8-54	Aux Vases	6-63	16-2S-8E	4,337	458	1,798
4108	Clay City C	Tamarack	Wayne	Pierce	2-54	Spar Mtn	1961	22-2N-8E	1,013	86	922
4132	Clay City C	Texaco	Wayne	E. Galligher	1-58	McClosky	7-59	2-2S-7E	32	0	0
2011	Coil W	Gulf	Jefferson	Coil W U	1-61	Aux Vases	12-63	14,15,22,23-1S-4E	1,319	82*	749
2012	Coil W	Gulf	Jefferson	Coil W U	1-61	McClosky	2-63	14,15,22,23-1S-4E	81	*	
4208	Concord C	C. E. Brehm	White	Concord N U	12-52	Aux Vases	10-62	10-6S-10E	637*	66	



Reservoir statistics (average values)						Development as of 12-31-64						Injection water			
Depth feet	Net pay thickness feet	Porosity percent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises	No. of wells		Injection pattern Mod = Modified Irr = Irregular	Acres per input well	Productive acres		Source Sd = Sand Gr = Gravel Prod = Produced Sh = Shallow	Type F = Fresh B = Brine	Remarks	Project no.
						Inj.	Prod.			Under inj.	Total				
	12.0	18.0		37.0		8	21	Perimeter	10	250	300	River & Prod	F & B		4201
2,460	6.0	18.0		37.0		4	5	5-Spot	10	100	100	River & Prod	F & B		4202
3,222	4.0	16.3	898	39.0		1	1			80	80	Prod	B	* Incl. prim. prod. to 12-56.	1014
3,005	21.0					1	1		10	30	20	Hard	B	* Dump flood.	1015
														* No data since 1957.	3910
2,020	15.0					2	2					Gr	F	As of 1-54.	
1,520	2.0	18.0	450		33.0 @	1	3	Irr	10	40	40	Sh Sd	F	* As of 12-60. †Included with 3906.	3971
1,520	15.0			28.4	8.9 @ 32°F	5	7		10	147	147	Prod	B	* As of 1-60. †1-58 to 12-59.	3952
2,000	16.0			34.8		4	7	5-Spot	25	130	130	River & Prod	F & B	* Incl. prim. prod. to 12-56. †1-55 to 7-57.	3944
1,388	12.0					1	1			10	55	Sh Sd	F & B	* Estimated.	3904
3,350	9.0			39.0		10	10	Irr		260	320	Cypress	B	* Incl. #3898 1962, 1963. Incl. prim. prod.	3979
3,450	18.0					1	2		10	40	40	Cypress	B	* Controlled dump flood.	4103
3,340	6.0	20.1	108	39.0		4	8	Mod Split Line		165	165	Well & Prod	B		
3,364	5.0			40.0	6.0 @ 78°F	3	4							* Incl. with 4106. †Incl. with 4104; only lime prod. abd.	4105
1,140	8.0	20.7	208	37.4		1	4	5-Spot	10	40	50	Prod	B	* Incl. 4105. †Incl. with 4104; only lime prod. abd.	4106
950	16.0	17.2	125	39.0	8.0 @ 70°F	15	11	5-Spot	4	70	100	Penn Sd & Prod	F & B		
2,890	10.0					1	2			14	30	Tar Springs & Prod	B	* Incl. prim. prod. since 2-53.	666
2,890	10.0					1	2			27	30	Tar Springs & Prod	B		3942
1,920	10.0			37.0		1	2		20	80	80	Prod	B		3943
2,570	13.0					18	16	5-Spot	20	290	330	Sh Sd	F & B		2300
2,570				35.0	3.2 @ 92°F	3	11	Line Dr	10	168	190	Tar Springs & Prod	B	* Incl. prim. prod.	3912
														* No data since start of flood.	3913
450	21.5	22.4	108	31.8	13.6 @ 65°F	9	4	5-Spot	4.4	13	215	Sh Sd	F		200
450	10.0	17.4	173	31.9	16.6 @ 70°F	73	69	5-Spot	4.4	280		Gr & Prod	F & B		217
3,366	7.0			43.0		1	1			20	20	Tar Springs	B		201
2,530	6.0			36.6		1	5	Flank		80		Tar Springs & Prod	B	* Dump flood. †from 1-55 to 12-55.	4267
3,950	22.0	10.0		39.8	2.7 @	2	12		20	160	200	Devonian	B		4246
2,645	8.0			40.0	3.2 @ 75°F	3	3	Flank		40	80	River Gr & Prod	F & B	* Pilot flood, reported as abd. 3-53.	408
3,000	5.0			38.0		1	1			20	40	Cypress	B	* Dump flood; inj. shut down from 12-55 to 5-57.	1900
3,160	10.0					1	1	Line Dr		40	40	Prod	B	* Incl. prim. prod. from 7-54 to 12-57.	3402
3,060	15.0					1	3		10	150	180	Cyp & Prod	B	* Incl. prim. prod.	4107
3,115	8.0	12.0		40.1		1	1		12.5	13	50	Tar Springs	B	* No data 1959-1961.	4109
2,900	5.0	19.0		38.0		2	8	Random		160	440	Penn Sd & Prod	B		4130
2,500						4	7			150		Cypress & Prod	B		4119
2,990	30.0	14.0	2,000	39.0		1	1			20	20	Prod	B		3416
3,150	8.0	19.0	115	39.0	3.7 @ 100°F	6	4	Mod Peripheral	20	172	172	Sewage & Prod	B		301
3,200	14.8	20.0	80		3.7 @ 100°F	7	6	Mod Peripheral		243	243	Prod	B	* Excl. 1962 and 1963.	4115
3,050	15.0					2	2			80	160	Cypress & Prod	B		4116
3,255	6.0			38.0		1	1		40	40	80	Cypress & Prod	B	* Estimated.	4108
2,700	10.0	19.0	160			5	4	Peripheral	10	95	120	Penn Sd	B		4132
						1	2			30		Penn Sd	B	* Incl. 2012.	2011
2,950	12.0	21.1	218	35.1	5.0 @ 103°F	1	3	Irr	10	40	40	Gr	F	* Incl. with 2011.	2012
														* Inj. discontinued 6-61.	4208

TABLE 11 - ILLINOIS WATERFLOOD PROJECTS

Project no.	General information						
	Field C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Section, T-R
1546	Wapole	Texaco, Inc.	Hamilton	Wapole E U	9-63	Aux Vases	26,35-6S-6E
2610	Wamac	Mineral Resources	Marion	Wamac WF*	5-54	Petro	19,30-1N-1E
414	Wamac W	Jet Oil Co.	Clinton	Wamac W	11-62	Benoist	22-1N-1W
1301	W. Frankfort	Farrar Oil co.	Franklin	W. Frankfort U	11-57	Tar Springs	18,19-7S-3E
1307	W. Frankfort C	Higgins Assoc.	Franklin	Horn-Diamond 'B'	7-59	Ohara, McClosky	24,25-7S-2E
1313	W. Frankfort C	Killion-McClement	Franklin	Tew-Sinks	9-62	Aux Vases	19,20-7S-3E
1315	W. Frankfort C	Shell Oil Co.	Franklin	Pond Creek	8-62	Tar Springs, Ohara	25-7S-2E
346	W. Seminary	Gulf Oil Corp.	Clay	West Seminary U	3-64	Aux Vases, McClosky	5,6,8-2N-7E
1312	Whittington W	Kewanee Oil Co.	Franklin	Plains	2-61	Renault	1,2,11,12,14-5S-2E
2019	Williams C	Warrior Oil Co.	Jefferson	Williams S U	10-64	Aux Vases	10,11-3S-2E
1906	Willow Hill E	Union Oil Calif.	Jasper	Willow Hill Consol.	6-57	McClosky	6-6N-11E
2023	Woodlawn	Texaco, Inc.	Jefferson	Walker No. 7	3-64	Cypress, Benoist	2-3S-1E
4137	Zenith N	Mobil Oil Corp.	Wayne	Zenith Field U	3-59	Spar Mtn	21-2N-6E



Project no.	General information								Production and injection statistics, M bbls		
	C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Date abd.	Section, T-R	Cumulative water injection	Cumulative secondary oil prod.	Cumulative water production
662	Main C	Petroleum Products	Crawford		9-51	Robinson	12-56	29,32-8N-12W	445*		
663	Main C	Ree	Crawford	Meserve	11-53	Robinson	5-55	11-6N-13W	251	1	39
626	Main C	E. C. Reeves	Crawford	Billingsley	12-53	Robinson	1-61	34,35-7N-13W	2,736	89	92
605	Main C	M. F. Roberts	Crawford	Bishop	11-53	Robinson	1960*	20-8N-12W	2,208†	35†	
627	Main C	Shakespeare	Crawford	McIntosh U	7-54	Robinson	1-59	17,18,19,20-6N-12W	396	18	241*
628	Main C	Shakespeare	Crawford	Montgomery U	5-54	Robinson	5-58	32,33-6N-12W; 4-5N-12W	516	18	177
661	Main C	Skiles	Crawford	Correll-Curley	7-51	Robinson	9-55	10-7N-12W	1,207	30	227
664	Main C	Skiles	Crawford	Walter-Community	12-51	Robinson	12-52	1-6N-13W; 36-7N-13W	26	0	29
665	Main C	Skiles	Crawford	Weger	11-52	Robinson	7-56	18,19-5N-11W; 13,24-5N-12W	777	9	109
638	Main C	Tidewater	Crawford	Henry-Ikemire	7-48	Robinson	10-61	10,15-7N-13W	4,187	470	2,401
679	Main C	Wausau	Crawford	Highsmith		Robinson	1957	31-6N-12W			
1008	Maple Grove C	Ashland	Edwards	Bennington	9-52	McClosky	6-61	7-1N-10E	572*	166†	
4127	Maple Grove C	Winmar	Wayne	W. Bennington	1-57	Aux Vases		13-1N-9E	171*	32†	
2004	Markham City W	Culf	Jefferson	W. Markham City U	4-54	Aux Vases McClosky	1963	3,4,9,10-35-4E	6,404	655	4,477
2003	Markham City	Tidewater	Jefferson	Newton Investment	8-55	McClosky	1958	1-35-4E	*	2†	7‡
218	Martinsville	J. B. Buchman	Clark		10-52	Carper	1954	31-10N-13W	283*	0	5*
219	Martinsville	Mobil	Clark	Carper	1-51	Carper	2-55	30-10N-13W	1,111	10	10
220	Martinsville	Mobil	Clark	Casey	8-50	Casey	2-53	19-10N-13W	872	2	34
4213	Maunie S C	Rhea Fletcher	White	Palestine 5and U*	2-53	Palestine	1962	13,24-6S-10E; 18-6S-11E	13,215	1,693†	10,448
4230	Maunie S C	Mobil	White	Tar Springs U	8-47	Tar Springs	12-57	24,25-6S-10E; 19-6S-11E	4,748*	792†	2,049
4239	Maunie S C	Mobil	White	Maunie Coop	11-55	Tar Springs	1-58	24-6S-10E	180	11	141
4268	Maunie S C	Mobil	White	Tar Springs U 2	11-49	Tar Springs	1955	24-6S-10E; 19-6S-11E	639	60	209
227	Melrose	Shakespeare	Clark	Melrose U	12-60	Penn	8-62	13,24-9N-13W	192	4	2
1505	Mill Shoals	B. Kidd	Hamilton	Cardner	9-56	Aux Vases	1962	24-35-7E	*	28†	
3941	Mt. Carmel	First Natl. Pet. Trust	Wabash	Shaw-Courter	4-53	Cypress	12-56	7-1S-12W	259	28	10*
3946	Mt. Carmel	First Natl. Pet. Trust	Wabash	Shaw-Courter	2-50	Biehl	12-56	7-1S-12W	364	69	148*
3919	Mt. Carmel	T. W. George	Wabash	N. Mt. Carmel	8-55	Cypress	1961	4,5-1S-12W	350*	2*	3*
3958	Mt. Carmel	T. W. George	Wabash	Dunkel-Johnson	10-57	Cypress	1962	32-1N-12W	186*	1*	1*
3921	Mt. Carmel	E. M. Novak	Wabash	Mt. Carmel U	7-54	Cypress	1959	17-1S-12W	1,538*	114*	
3917	Mt. Carmel	Tamarack	Wabash	C. Dunkel	6-52	Biehl	1958	5-1S-12W	198*	28*†	32*
4219	New Harmony C	Calstar	White	Ford "B"*	3-53	Bethel	4-60	21-4S-14W	1,113†	104†	
4330	New Harmony C	V. R. Gallagher	White	Greathouse-Waltersburg U	1-55	Waltersburg	9-63	34-4S-14W	102	122	40
3907	New Harmony C	T. W. George	Wabash	E. Maud	7-52	Bethel	1958	32,33-1S-13W	98*	55*†	
3947	New Harmony C	T. W. George	Wabash	E. Maud	1-53	Cypress	1958	32,33-1S-13W	31*	55*†	
3955	New Harmony C	Indiana Farm Bureau	Wabash	Landis-Coins	3-57	Cypress	1960	3-2S-13W	62*	11*†	78*‡
4217	New Harmony C	J. Simpkins	White	*	9-56	McClosky	12-59	5-3S-14W; 32,33-4S-14W	762		
4222	New Harmony C	Skiles	White	Smith-Davenport	5-55	Cypress	10-57	15-4S-14W	147	4	2
4287	New Harmony C	Skiles	White	Calvin Griffin C	9-59	Cypress	6-61	8-4S-14W	1	0	27
4288	New Harmony C	Skiles	White	Calvin Griffin C	9-59	Aux Vases	10-61	8-4S-14W	109	4	23
4223	New Harmony C	Sun	White	Greathouse	8-47	McClosky	1-57	33-4S-14W; 4-5S-14W	1,088	129	227
4234	New Harmony C	Sun	White	Ford "B"*	3-53	Bethel	6-58	21-4S-14W	495	50	199



Reservoir statistics (average values)						Development as of 12-31-64						Injection water		Remarks	Project no.
Depth feet	Net pay thickness feet	Porosity percent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises	No. of wells		Injection pattern Mod = Modified Irr = Irregular	Acres per input well	Productive acres		Source Sd = Sand Gr = Gravel Prod = Produced Sh = Shallow	Type F = Fresh B = Brine		
						Inj.	Prod.			Under inj.	Total				
1,000	15.0	20.0	75	37.5	7.3 @ 76°F	4	2	5-Spot	10	10	700	Sh Sd & Prod	F	* As of 1-55.	662
950	22.7	21.9	89		10.0 @ 79°F	4	4	5-Spot	10		525	Penn Sd	B		663
925	20.0	30.0	45	35.0		6	8	5-Spot	10	115	350	Penn	B		626
1,000	22.4	22.1	156	35.7	10.0 @ 78°F	26	27	5-Spot	10	70	474	Tar Springs & Prod	B	* Estimated. †As of 1-60.	605
900	12.0			32.6	11.0 @ 75°F	4	8	Peripheral	4.7	39	88	Penn Sd	B	Prev. subj. to gas inj	627
915	26.0	22.6	150	28.3	23.0 @ 71°F	6	6	Mod 5-Spot	6-10	52	85	Robinson	F & B	*Estimated.	628
1,035	20.0	22.2	100	33.0	13.5 @	18	17	5-Spot	10	180		Creek & Penn Sd	F & B		661
950	10.0	20.1	93	36.0	12.5 @	5	6	5-Spot	10	40		Penn Sd	B		664
1,010	15.0					9	11	5-Spot	10	90	110	Creek & Prod	F & B		665
935	14.6	21.0	175	35.0	7.0 @ 60°F	17	10	5-Spot	4.4	104	210	Tar Springs	B	Prev. subj. to gas inj.	638
															679
3,100	5.0			38.0		2	1	Flank		110	110	Prod	B	* Controlled dump flood	1008
3,125	18.0	24.0	50	37.0		1	4			90	120	Cypress	B	†Incl. prim. prod.	4127
2,900	22.0		269	38.0	3.2 @ 99°F	8	6	5-Spot	20	230	210	Cypress	B	* Est., dump flood.	2004
3,000	15.4		230		2.8 @ 104°F					150	150			†Incl. prim. prod.	
3,080	6.0					1	1		40	40	40	Cypress	B	* Dump flood. †Est.; incl. prim. prod. since 1-56.	2003
1,346	40.0	16.0	11	30.0		2	6	5-Spot	20	40	40	Sh Sd	F	* As of 1-57.	218
1,334						4	1	5-Spot	10	10	50	Gr Bed	F	* As of 1-54.	219
464						8	3	5-Spot	10	23	110	Gr Bed	F		220
2,010				36.6		18	19	5-Spot	20	448	616	Gr & Prod	F & B	* Formerly Mobil. †Incl. prim. prod.	4213
2,270				37.3	4.6 @ 89°F	2	4	5-Spot	20	138	230	Gr & Prod	F & B	* Corrected figure. †Incl. prim. prod. to 12-56.	4230
2,275						1	3	Irr		18	80	Gr & Prod	F & B		4239
2,275						3	2	5-Spot	20	50	50	Gr Bed	F & B		4268
845	9.0	17.0	20	34.8	10.2 @	5	6	Peripheral	20	105	105	Sh Sd	F		227
3,243	11.0					1	2	Irr	10	30	30	Hardinsburg	B	* Dump flood. †Incl. prim. prod.	1505
2,050	12.0					1	4		10	50	50	Well	F	* As of 1-56.	3941
1,375	16.0			40.2	4.7 @ 70°F	1†	2		10	30	30	Well & Prod	F & B	* As of 1-56. †During 1956, inj. well used as a straight disposal well.	3946
						3	4	Line		70	70	Well	F	* As of 1-59.	3919
						4	5	5-Spot		160		Well & Prod	F & B	* As of 1-59.	3958
2,140	13.0			33.0		6	15			234		Well	F	* As of 1957.	3921
1,500	6.7	15.3	310	36.6	3.9 @ 104°F	2	3		28.9	87	68	Sh Sd	F	* Excl. 1957-58. †Incl. prim. prod. since 6-52.	3917
2,695	12.0			37.5	3.7 @ 96°F	2	2		20	20	35	Gr Bed	F	* Cooperative pilot flood with Sun. †As of 1-60.	4219
2,215	12.0	19.0	140			1	1	Line Dr	10	70	70	Purchased	F & B		4330
2,500	15.0	17.0	57	36.1	5.1 @ 94°F									* As of 12-56. †Incl. prim. prod. since 7-52.	3907
2,400	12.0													* As of 12-56. †Incl. prim. prod. since 1-55.	3947
2,340				36.0		1	2			20		Prod	B	* As of 1-60. †Incl. prim. prod. since 3-57.	3955
2,900	9.4			34.5	4.2 @ 98°F	4		5-Spot	20	85	302	River & Gr Bed	F	* Since 1-58.	4217
2,630	10.0	17.7	145			1	2	Irr		30	30	Tar Springs	B	* Arrow-McBride-Hon-Bump-Crawford.	4222
2,252	10.0					1	2			20	30	Sh Gr & Prod	F & B		4287
2,800	20.0					2	1	5-Spot	20	30	40	Sh Gr & Prod	F & B		4288
2,900	0			36.9		1	1			50		Gr Bed	F		4223
2,696	12.0	13.0†	30†	32.5		1	5			20	80	Gr Bed	F	* Cooperative flood with Calstar. †Estimated.	4234

Project no.	General information								Production and injection statistics, M bbls		
	C = Consolidated	Operator	County	Project U = Unit	Date first inj.	"Formation"	Date abd.	Section, T-R	Cumulative water injection	Cumulative secondary oil prod.	Cumulative water production
4269	New Harmony C	Sun	White	Ford "A"	3-48	McClosky	7-52	18-5S-14W	58	13	1
2600	Odin	Ashland	Marion	Odin	10-49	Cypress	10-62	1,12,13-2N-1E; 6,7,18-2N-2E	8,034	1,321	
3407	Olney C	Culf	Richland	E. Dundas U	10-56	McClosky	9-62	25,26,35,36- 5N-10E	953	152	207
1904	Olney C	Sohio	Jasper	Dundas E U	4-55	Ohara	5-61	14-5N-10E	2,003	142	1,378
3422	Olney S	Ring & Kinsell	Richland	Unit	6-61	McClosky	1-62	28-3N-10E	32		
1432	Omaha S	David Rotstein	Callatin	Woolard	10-60	Cypress	2-64	7-8S-8E	164	0	5
3415	Parkersburg C	Calvert	Richland	Parkersburg	1-55	McClosky	1956	16,21-2N-14W	107*	0	43*
4245	Phillipstown C	C. E. Brehm	White	Phillipstown U "A"	6-52	Penn	5-57	30-4S-11E; 19,30-4S-14W	311	68*	
4277	Phillipstown C	Kirby	White	W.P.B.S. U	9-59	Benoist	12-63	26,35-4S-10E	1,791	160	949
4252	Phillipstown C	Mobil	White	N. Calvin	5-51	Biehl	1960	30,31-3S-11E	1,156	426	499
4354	Phillipstown C	Phillips	White	Laura	3-52	Benoist	1-64	19-4S-11E	197	16	51
4232	Phillipstown C	Skiles	White	L. O. Cleveland	11-55	Tar Springs	12-56	36-4S-10E	48	0	0
4256	Phillipstown C	Sun	White	Phillipstown U	12-55	Clore	6-60	6-5S-11E	256	110	58
4270	Phillipstown C	Sun	White	Phillipstown	1-53	Tar Springs	3-54	6-5S-11E	58	0	251
4262	Roland C	T. W. George	White & Callatin	Pankey-Morehead U	10-56	Cypress	1958	17,20-7S-8E		0	
309	Sailor Springs C	Cities Service	Clay	Wyatt	9-53	Aux Vases	1-62	13-5N-7E	848	40*	446*
334	Sailor Springs C	Cities Service	Clay	Wyatt	1-61	Spar Mtn	1-62	13-5N-7E	23	*	*
310	Sailor Springs C	Culf	Clay	R. Keck	9-57	Cypress	3-60	26-4N-7E	65	11*	37
314	Sailor Springs C	W. C. McBride	Clay	Bothwell	8-56	Cypress	1960	14-3N-7E	108*	6*	18*†
316	Sailor Springs C	Shulman Bros	Clay	Neff	1-57	McClosky	1960	16-3N-7E	114*†	3*	1†
1222	St. James	H. Rosenthal	Fayette	Washburn 13	3-54	Cypress	1-62	30-6N-3E	460*	198†	460*
1905	Ste. Marie	J. R. Randolph	Jasper	Ste. Marie	10-48	McClosky	12-60	5,6,7,8- 5N-14W	1,955*	195*†	63*†
2604	Salem C	Texaco	Marion	Rosiclare Sand U	4-50	Spar Mtn	9-62	15-1N-2E	1,913	96*	206*
1010	Samsville	Ashland	Edwards	W. Salem	9-54	Bethel	3-59	30-1N-14W	319	7*	
3410	Seminary	R. P. Johnson	Richland	Seminary	2-54	McClosky	1958	17-2N-10E	89*	25	290†
701	Siggins	C. R. Cochonour	Cumberland	Vevay Park	1-50	Siggins	1956	25-10N-14W	225	2	103
003	Sorento C	J. Simpkins	Bond			Devonian	1958	17-6N-4W			
317	Stanford S	Gulf	Clay	S. Stanford U	5-54	Aux Vases	2-60*	2,9,16,17- 2N-7E	2,805*	370	987
4271	Storms C	Mabee	White	Storms	7-51	Waltersburg	6-53	22-6S-9E	90	0	
3411	Stringtown	N. C. Davies	Richland	Stringtown	12-53	McClosky	1960	31-5N-14W	257*	19*†	289
3412	Stringtown	Helmerich & Payne	Richland	Stringtown	10-54	McClosky	1958	31-5N-14W	171	5	57
3414	Stringtown	Murvin & Steber	Richland			Aux Vases	10-58	31-5N-14W			
3413	Stringtown	Skelly	Richland	Peter Von Alman	12-53	McClosky	1-64	31-5N-14W	324*	40*	242*
1303	Thompsonville N	Humble	Franklin	N. Thompsonville U	10-55	Aux Vases	8-62	3,9,10- 7S-4E	2,211	365	599
222	Westfield	Forest	Clark	Parker	6-50	"Cas Sand"	4-61	30-11N-14W	663	34	
502	Westfield	General Operations	Coles & Clark	Johnson	6-51	"Cas Sand"	1958	7,18,19-11N-11E 18-11N-14W	205	13	75*
221	Westfield	Ree	Clark	Hawkins	8-51	"Gas Sand"	1954	20,21-11N-14W	265*	2*	44*
1226	Wilberton	W. L. Belden	Fayette			Devonian	12-60	18-5N-3E	2	0	
1907	Willow Hill E	M. M. Spickler	Jasper		6-52	McClosky	12-56	36-7N-10E	*	2†	
002	Woburn C	Arrow	Bond	Spindler #2	9-51	Benoist	1958	10-6N-2W	194*	11*†	194*†
706	York	C. Keyser	Cumberland	Unit	6-61	Siggins	1963	1-9N-10E	37	0	3
703	York	Trans-Southern	Cumberland	York	10-50	Casey	1959	6-9N-11E	611	15	240

Reservoir statistics (average values)						Development as of 12-31-64						Injection water		Remarks	Project no.
Depth feet	Net pay thickness feet	Porosity percent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises	No. of wells		Injection pattern Mod = Modified Irr = Irregular	Acres per input well	Productive acres		Source Sd = Sand Gr = Gravel Prod = Produced Sh = Shallow	Type F = Fresh 8 = Brine		
						Inj.	Prod.			Under inj.	Total				
2,900	7.0			38.0		1	1			40	40	Gr Bed	F		4269
1,700	15.0	20.0	78	38.0	8.3 @ 69°F	11	16	Perimeter		230	290	Tar Springs	8		2600
2,985	6.0	12.5		41.4		5	6	5-Spot	40	220	360	Penn Sd	8		3407
2,900	8.0			35.0		4	7	Perimeter	10	102	180	Cypress	B		1904
3,150	6.0					1	4			100	200	Cypress	8		3422
2,541	19.0	12.9	24			1	1		10	20	20	Tar Springs	B		1432
3,062	10.0					2	7		20	160	160	Prod	8	* As of 1-56.	3415
1,912	23.0	13.0	36	38.0	4.5 @ 84°F	1	5	Irr		90	90	Penn Sd	8	* Incl. prim. prod. to 12-56.	4245
2,840	10.0	15.6	70	36.0		9	12	Line	10	270	270	Penn & Prod	B		4277
1,830				32.8	11.0 @ 80°F	2	7	5-Spot	20	53	120	Sh Sd & Prod	F & B		4252
2,810	10.0	15.0	46	37.0		1	2		10	20	40	Prod	B		4254
2,300	12.0					1	2	Irr		30	30		B		4232
2,000	10.0					1	5			50	135	Prod	B		4256
2,248	10.0			34.5		1	9			10	10	Prod	8		4270
2,260	20.0	14.0	16			2	2	5-Spot	20	40	40	Tar Springs	8		4262
2,771	9.2	17.0 <sup>†</sup>	50 <sup>†</sup>	35.0		2	2	Irr	10	10	40	Penn Sd & Prod	8	* Incl. 334. <sup>†</sup> Estimated.	309
2,845	10.0					1	1		10	5	10	Penn Sd & Prod	B	* Incl. with 309	334
2,602	10.0					1	1			10	20	Prod	B	* Incl. prim. prod since 10-57.	310
2,650	10.0	19.0	20	36.0		1	1		10	20	20	Prod	B	* As of 1-60. <sup>†</sup> Since 6-59.	314
3,000	5.0			36.0		1	1		20	40	40	Tar Springs	8	* As of 1-60. <sup>†</sup> Corrected figure <sup>‡</sup> Excl. 1959.	316
1,595	20.0			34.0		3	9			95	95	Prod	B	* As of 1-59. <sup>†</sup> As of 1-62; est. 1958-1961.	1222
2,860	7.0					1	15				500	Cypress	8	* Est.; dump flood. <sup>†</sup> Excl. 1956. <sup>‡</sup> Since 1-56.	1905
2,093	14.0	11.5	43	36.5		1	1	Flank	10	100	100	Prod	8	* Operator adj.	2604
2,930	5.0					1	1			20	35	Prod	8	* Incl. prim prod. since 9-54.	1010
3,000	8.0			36.0		2	4			173	173	Cypress	8	* Est.; dump flood <sup>†</sup> Excl. 4-57 to 12-57.	3410
600	16.0	20.3	349	30.1		2	4	5-Spot	4.4	10		Surface & Prod	F & 8		701
															003
2,975	11.8	19.8	97	38.8	3.7 @	9	7	5-Spot	20	125	170	Penn & Prod	8	* Inj. ceased 12-58.	317
2,241	15.0					1	2			40	40	Penn Sd	B		4271
3,000	10.0	18.0				2	3			80	80			* As of 1-59. <sup>†</sup> Incl. prim. prod. 12-53 to 1-59.	3411
3,026	7.0			38.0		2	2		10	92	50	Cypress & Prod	8		3412
															3414
3,002	12.0			36.0		1	2		10	80	80	Purchased	F & B	* As of 1958.	3413
3,075	25.0	22.0	170	37.5	5.8 @ 60°F	6	5	5-Spot	20	80	164	Cyp & Prod	B		1303
270	25.0	17.9	153	28.1	54.0 @ 60°F	9	12	5-Spot	2.5	20		Gr Bed	F	Prev. subj. to gas inj.	222
320	35.0	21.5	86	29.0		30	14	5-Spot	4.4	50	640	Lake & Prod	F & 8	* Excl. 1956.	502
290	30.0	22.0	120	30.0	28.0 @ 62°F	15	8	5-Spot	4.4	40	360	Devonian & Prod	F & B	* As of 1-54.	221
3,400	15.0					1	3			120	120				1226
3,610	10.0					1	1			20	20	Prod	B	* Dump flood. <sup>†</sup> As of 1-55	1907
1,000	14					1	4			20	20	Prod	B	* No data after 1955. <sup>†</sup> Estimated.	002
550	11.0	17.8	80	33.8	11.5 @ 66°F	1	2		20	40	40	Penn	B		000
590	10.0	21.9	231	30.3	10.0 @ 75°F	3	7	Line Dr	4.4	15	125	Prod	B		003

Year	No. of active projects	Water injection (M bbls)		Reported waterflood oil production (M bbls)		Estimated dump flood production (M bbls)		Total oil prod. (M bbls)
		Annual	Cumulative <sup>†</sup>	Annual	Cumulative <sup>†</sup>	Annual	Cumulative <sup>†</sup>	
1949	33	20,612	50,983	2,511	10,313	1,500	5,000	64,501
1950	63	44,053	99,040	3,107	13,826	1,500	6,500	62,028
1951	84	57,147	148,279	6,672	21,890	1,500	8,000	60,244
1952	131	72,951	221,078	8,752	29,000	2,000	12,000	60,071
1953	167	118,409	335,727	10,086	39,800	2,250	14,600	59,025
1954	232	176,012	512,202	15,985	55,687	2,129	17,900	67,000
1955	284	224,579	745,573	24,585	81,131	1,978	19,800	81,131
1956	333	271,270	1,014,900	29,600	111,700	1,700	21,500	82,314
1957	382	295,750	1,310,000	35,442	147,142	1,750	23,250	76,649
1958	443	317,153	1,606,500	40,833	187,338	2,040	25,290	80,779
1959	499	345,098	1,954,200	41,360	238,512	2,436	27,720	96,727
1960	559	376,563	2,324,200	44,789	283,862	1,750	29,470	77,341
1961	658	390,093	2,753,361	50,412	334,716	1,270	30,740	77,478
1962	717	467,318	3,144,893	49,078	379,977	1,245	31,985	78,796
1963	779	438,191	3,631,514	50,092	471,345	902	32,887	74,796
1964	848	467,691	4,099,133	47,977	520,886	660	33,547	70,168

\* Waterflood oil includes estimated dump flood production. All other figures exclude dump flood production.

† Current oil plus previous cumulative does not equal current cumulative because of yearly revisions.

\*\* Includes abandoned acreage with waterfloods and pressure maintenance.



Year	Waterflood prod. % of total prod.*	No. of wells in flood projects		Productive acreage		% of total acreage under flood	Cumulative waterflood oil recovery/ acre sub- jected to injection	Cumulative injected water/ cumulative produced oil
		Inj.	Prod.	Subjcted to inj.	Total			
1949	6.2	946	1,055	8,450	375,985	2.2	1,230	4.9
1950	7.4	1,097	1,197	14,123	397,685	3.6	979	7.2
1951	13.4	1,620	5,230	17,646	412,050	4.3	1,241	6.8
1952	17.9	2,160	5,114	31,330	425,025	7.4	926	7.6
1953	20.9	2,849	5,298	37,854	434,100	8.7	1,051	8.4
1954	27.0	3,597	6,686	59,027	500,130	11.8	943	9.2
1955	32.7	4,407	7,163	72,832	521,200	14.0	1,114	9.2
1956	38.0	5,307	7,687	92,350	539,315	17.1	1,210	9.1
1957	48.5	5,734	7,814	112,000	550,305	20.4	1,316	8.9
1958	53.1	6,647	8,567	122,500	562,535	21.8	1,529	8.6
1959	57.1	7,327	9,306	136,976	574,625	23.8	1,741	8.1
1960	60.2	8,062	9,855	152,823	585,045	26.1	1,857	8.2
1961	66.7	8,560	10,521	171,825	602,665	28.5	1,948	8.2
1962	63.9	8,875	10,660	186,785	612,995	30.5	2,034	8.2
1963	66.9	9,048	11,690	194,900	621,735	31.4	2,616	7.7
1964	69.3	9,731	11,497**	240,163**	629,055	45.4	1,825**	8.7

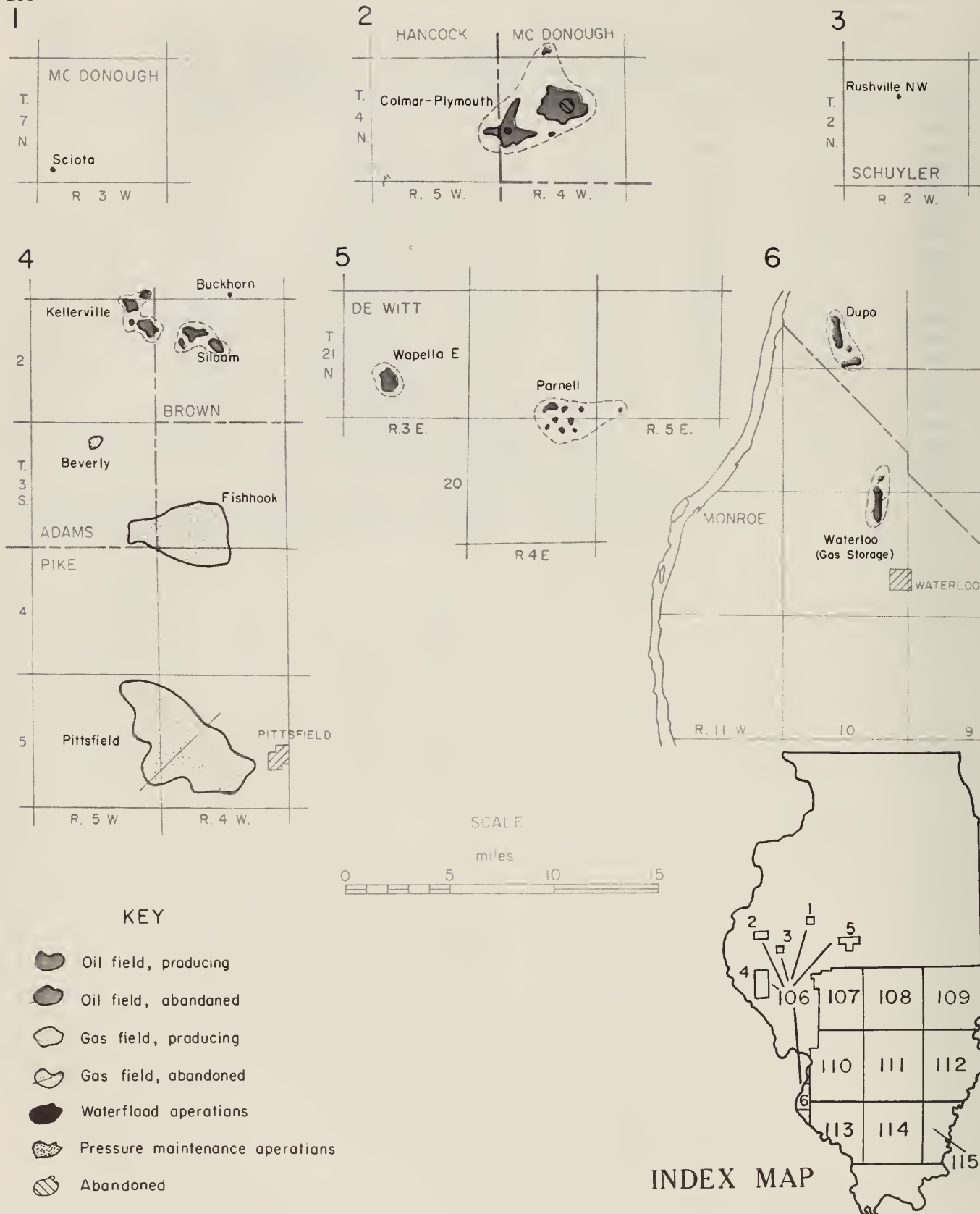
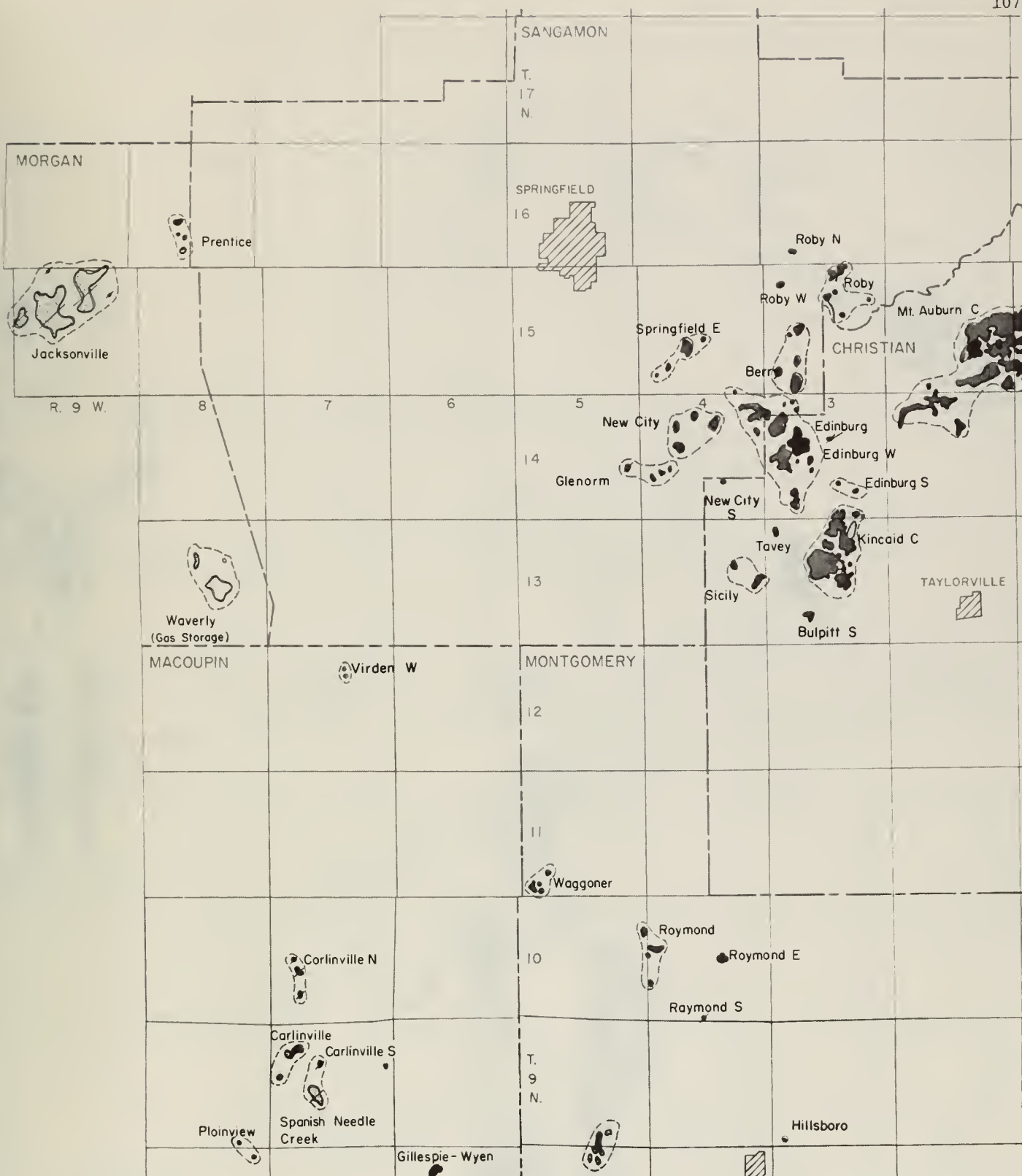
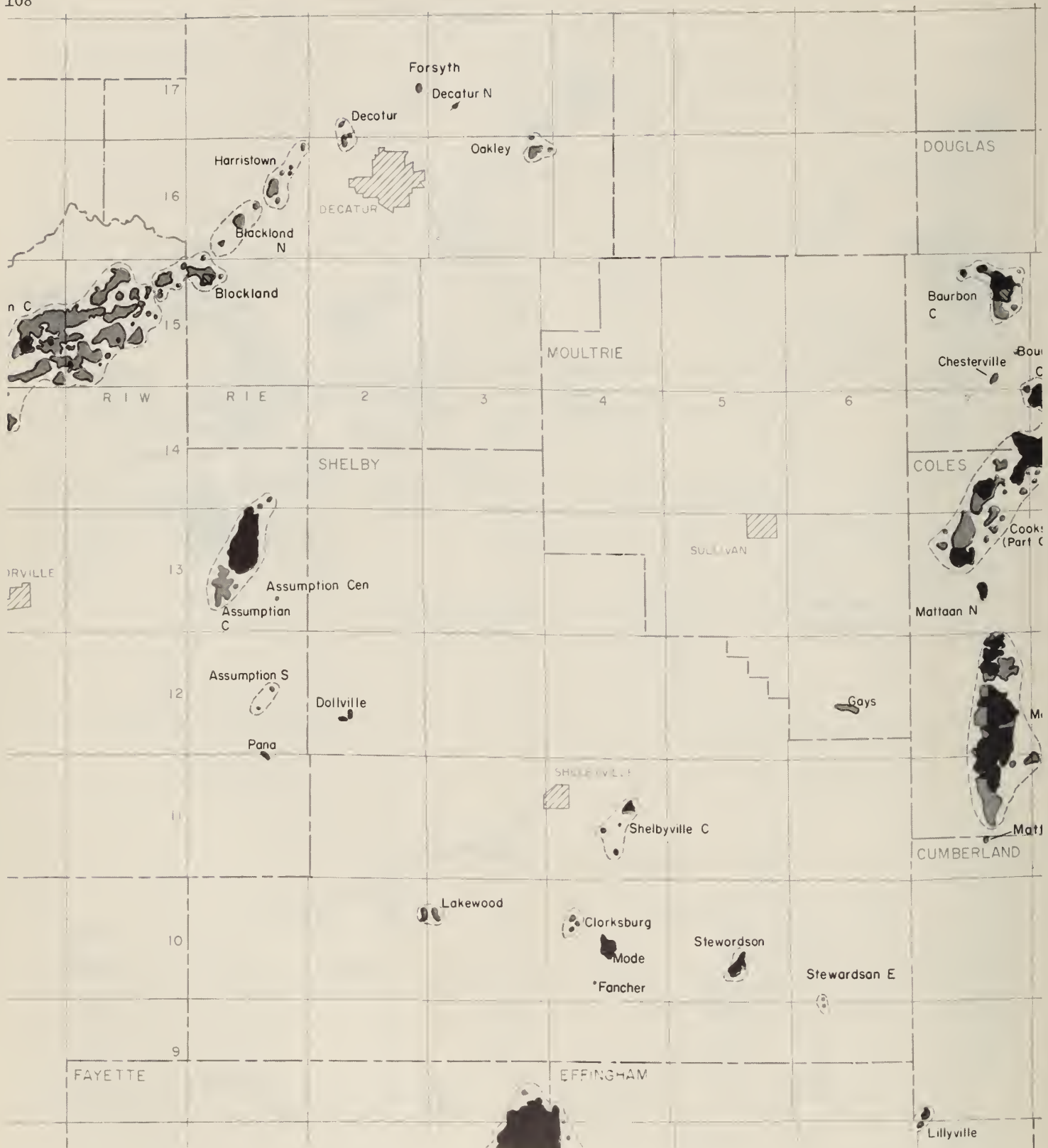
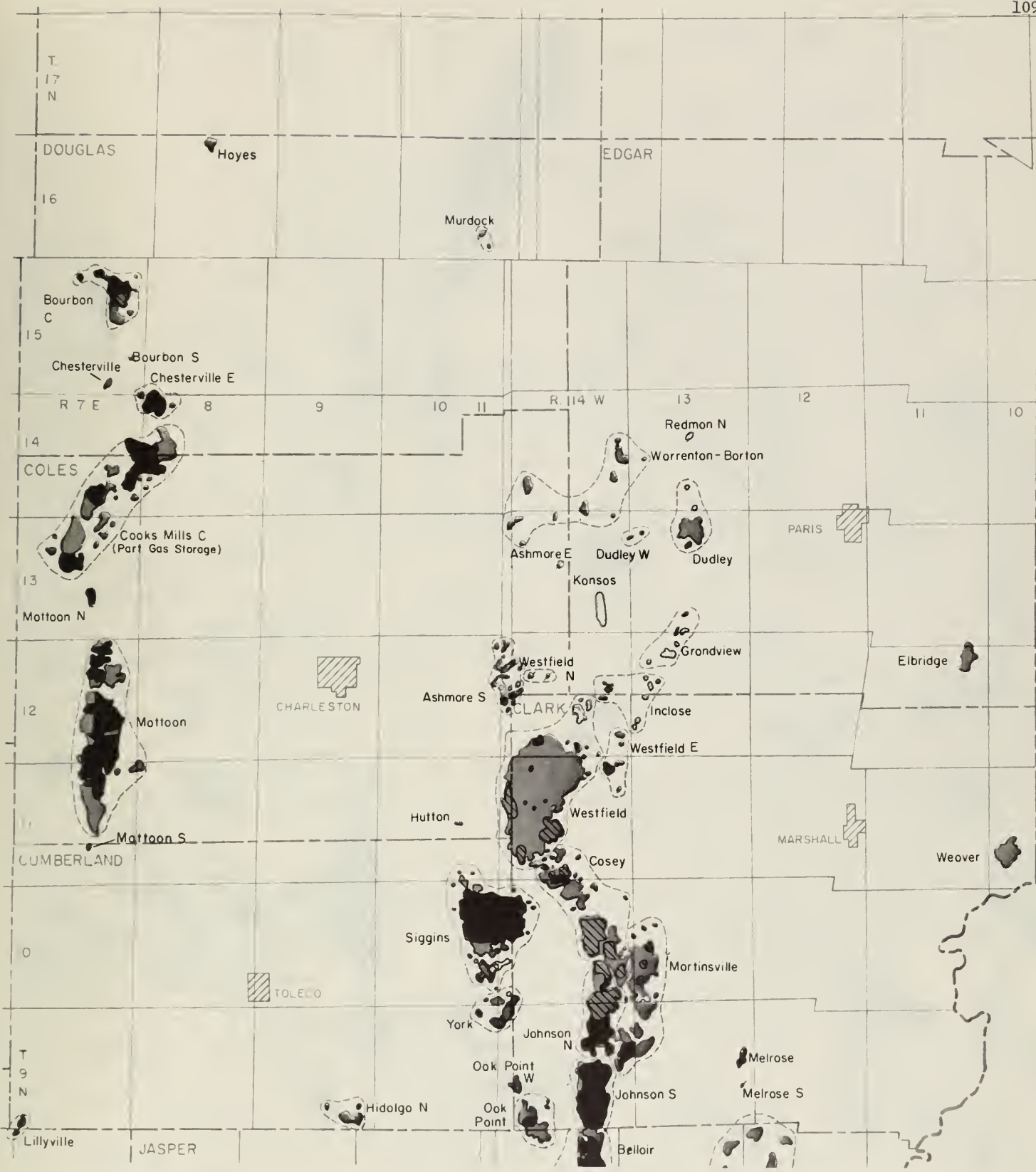


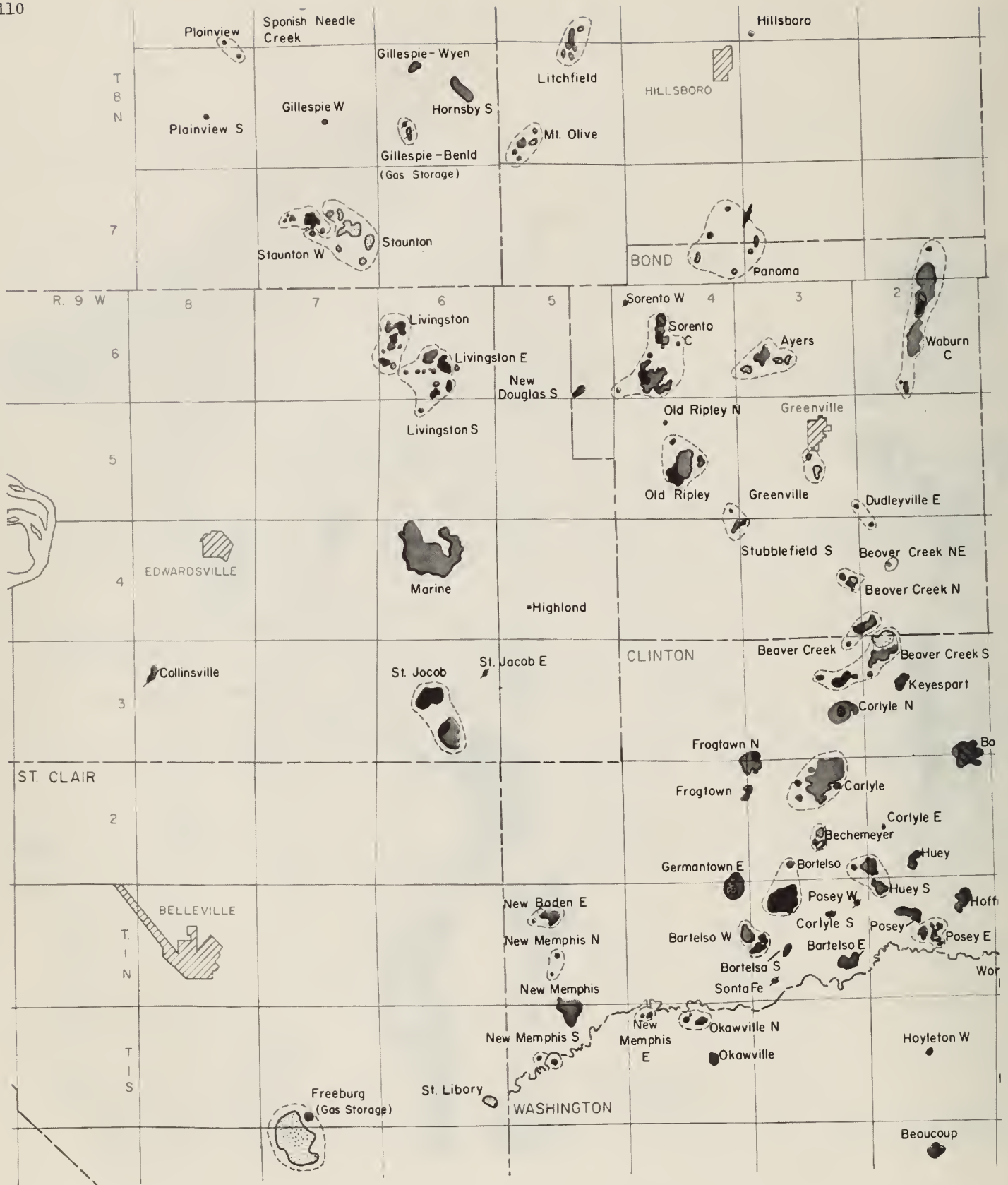
Figure 4 - Oil and gas fields in Illinois. Waterflood and pressure maintenance operations, December 31, 1964. Index map shows distribution of map over pages 106 through 115.













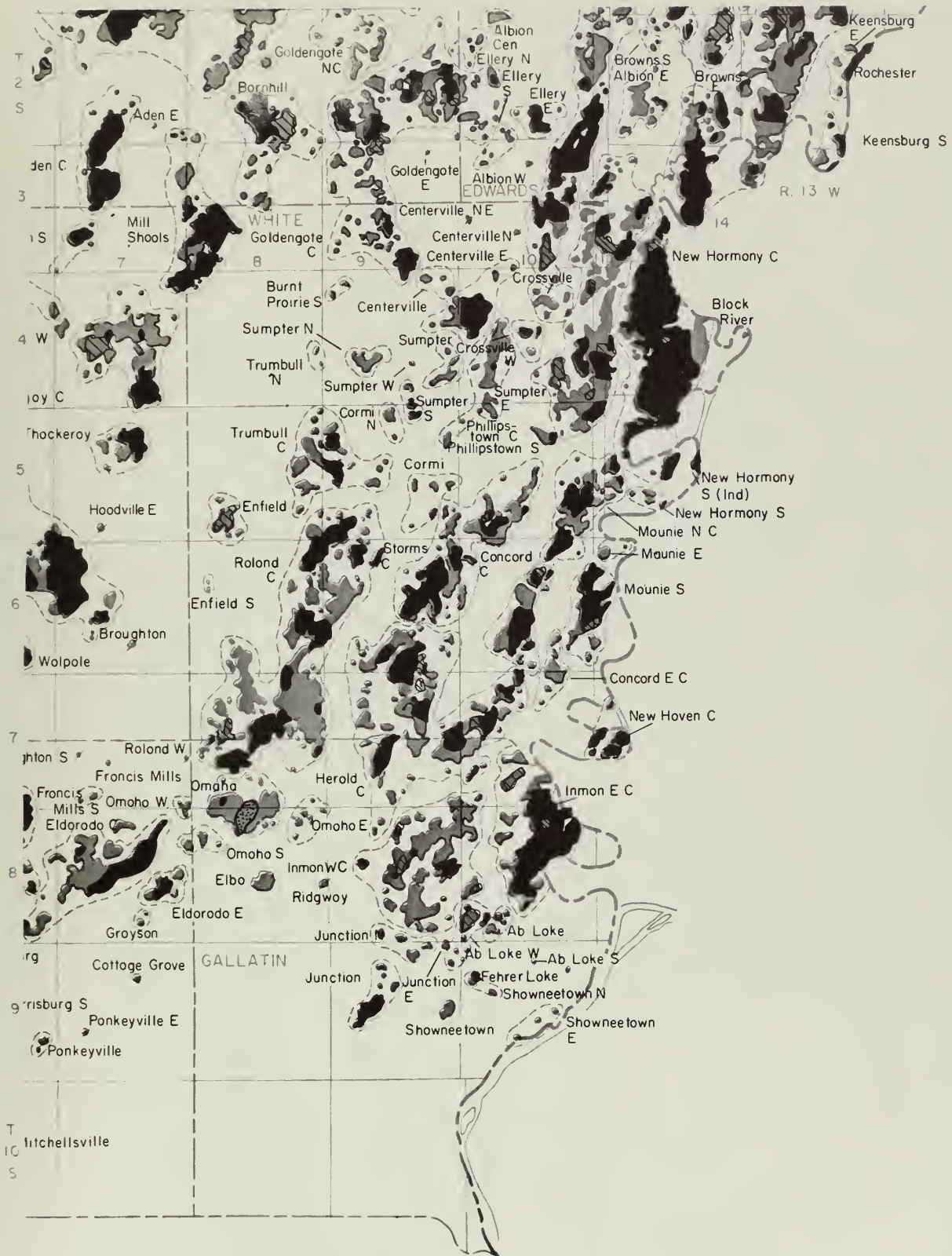


















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